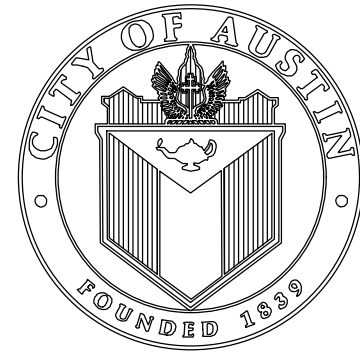


12/22/2020

CITY OF AUSTIN, TEXAS ECONOMIC DEVELOPMENT DEPT



RED RIVER ENHANCEMENT

SUB PROJECT ID: 7327.053

NOTES:

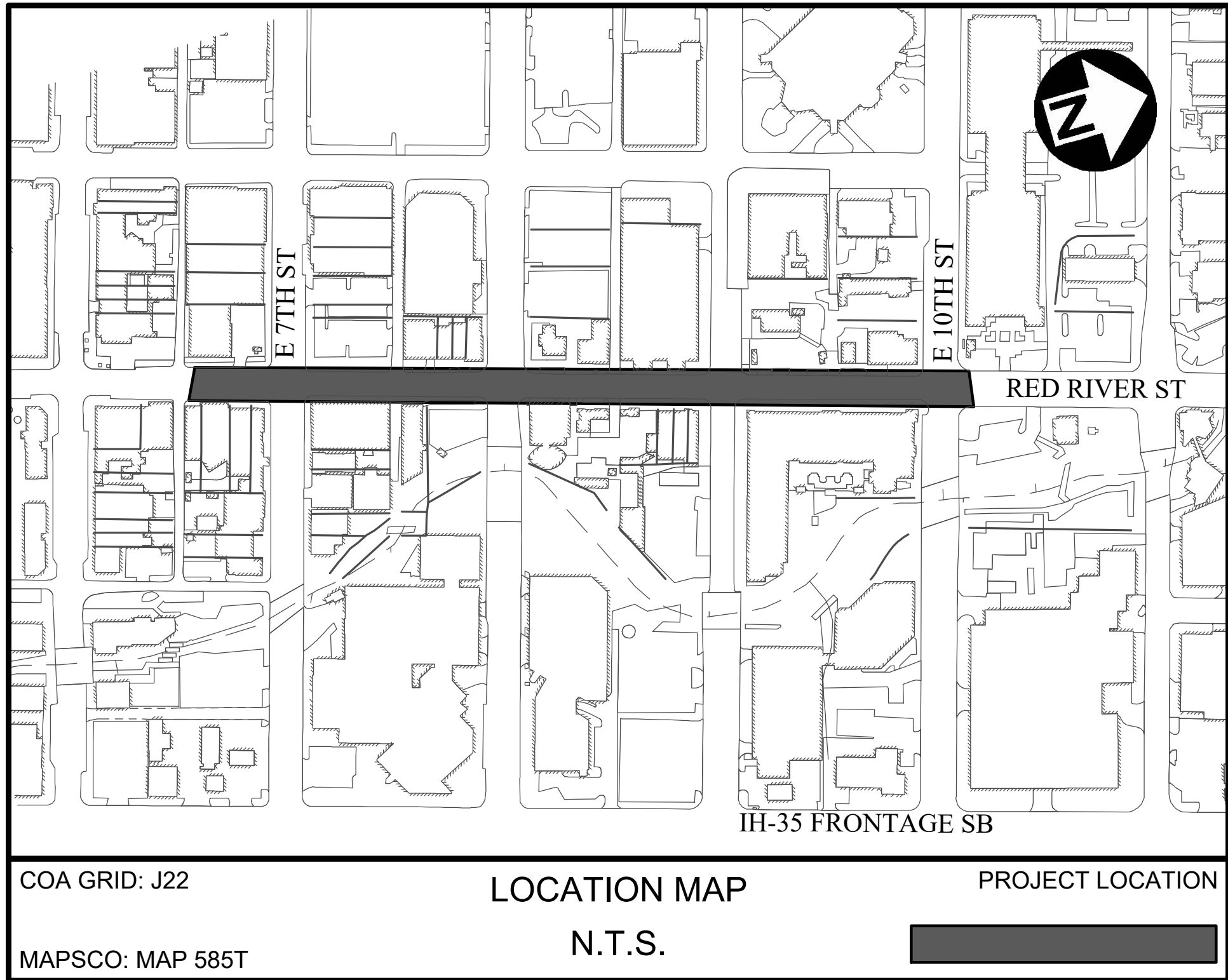
- CONTRACTOR SHALL NOTIFY THE PUBLIC WORKS DEPARTMENT 24 HOURS PRIOR TO STARTING CONSTRUCTION OR CLEARING OPERATIONS.
- CONTRACTOR SHALL CALL "ONE CALL" AT 811 FOR UTILITY LOCATIONS AT LEAST 48 HOURS PRIOR TO ANY WORK IN CITY EASEMENTS OR STREET RIGHT OF WAYS.
- THIS PROJECT IS LOCATED WITHIN THE WALLER CREEK WATERSHED (CLASSIFIED AS URBAN) AND SHALL BE DEVELOPED, CONSTRUCTED AND MAINTAINED IN ACCORDANCE WITH CHAPTER 25 OF THE CODE OF THE CITY OF AUSTIN.
- NO PORTION OF THIS SITE IS LOCATED WITHIN PARKLAND OR LAND USED FOR PARK PURPOSES. (IF SUCH LAND IS INCLUDED, DOCUMENTATION OF PARKS AND RECREATION DEPT APPROVAL IS REQUIRED AT THE TIME OF SUBMITTAL FOR GENERAL PERMIT PROGRAM APPROVAL.)
- NO PORTION OF THIS SITE IS LOCATED WITHIN THE 100-YEAR FLOODPLAIN, PER CITY OF AUSTIN AND FEDERAL EMERGENCY MANAGEMENT AGENCY FLOOD INSURANCE RATE MAP(S) NO ____, DATED ____.
- THIS PROJECT IS NOT WITHIN THE EDWARDS AQUIFER RECHARGE ZONE AS DEFINED BY THE CITY OF AUSTIN. THIS PROJECT IS NOT WITHIN THE EDWARDS AQUIFER RECHARGE ZONE AS REGULATED BY THE TEXAS COMMISSION ON ENVIRONMENTAL QUALITY (TCEQ).
- THERE ARE NO CRITICAL ENVIRONMENTAL FEATURES WITHIN 150' OF ANY PORTION OF THIS PROJECT. A FIELD INVESTIGATION HAS NOT BEEN PERFORMED AS A PART OF THIS PROJECT. (A FIELD INVESTIGATION HAS NOT BEEN PERFORMED AS A PART OF THIS PROJECT AND IS NOT REQUIRED.)
- THE STANDARD SHEETS INCLUDED IN THIS PLAN SET WERE PROVIDED BY THE GENERAL PERMIT PROGRAM OFFICE FOR USE ON GENERAL PERMIT PROJECTS ONLY. IF ANY MODIFICATIONS TO THE SHEETS WERE MADE, THEY ARE CLEARLY INDICATED ON THE SHEET ITSELF AND IN THE COVER SHEET INDEX.
- ADDITIONAL TRENCH E/S CONTROL: TRIANGULAR SEDIMENT FILTER DIKE WILL BE INSTALLED ACROSS FULL WIDTH OF TRAFFIC CLOSURE AND DOWNSTREAM OF CONSTRUCTION AREA, PERPENDICULAR TO CURB. FILTER DIKE TO FOLLOW ACTIVE CONSTRUCTION. REMOVING AND RE-SETTING FILTER DIKE IS CONSIDERED SUBSIDIARY TO BARRICADES AND TRAFFIC HANDLING.
- PROJECT SCHEDULE MUST BE APPROVED BY THE GENERAL PERMIT PROGRAM (GPP) COORDINATOR. INSTALLATION AND REMOVAL OF TEMPORARY AND PERMANENT EROSION/SEDIMENTATION CONTROLS MUST BE REFLECTED IN THE SCHEDULE, BY STATION NUMBER. GPP INSPECTOR MUST BE NOTIFIED A MINIMUM OF 48 HOURS IN ADVANCE OF TRANSITION BETWEEN PHASES.
- APPROPRIATE EASEMENTS/APPROVALS MUST BE SECURED AND DOCUMENTED FOR PROJECT AREAS LOCATED OUTSIDE OF RIGHT OF WAYS. NO WORK SHALL BE PERFORMED WITHIN THESE AREAS UNTIL ASSOCIATED RIGHT OF ENTRY HAS BEEN SECURED. ADDITIONALLY, THIS PROJECT WILL NOT BE CONSIDERED COMPLETE UNTIL ALL RECORDED EASEMENT DOCUMENT NUMBERS HAVE BEEN OBTAINED AND SHOWN ON PLANS.
- CONTRACTOR SHALL STAKE ALL PROPOSED SERVICE CONNECTIONS LOCATED WITHIN THE CRITICAL ROOT ZONE OF TREES 8" IN CALIPER AND LARGER AT LEAST 21 CALENDAR DAYS PRIOR TO CONSTRUCTION OF SUCH SERVICES. STAKING SHALL CONSIST OF A LATH WITH NAIL AND PAINT MARKINGS. IN CASES WHERE A STAKE CANNOT BE PLACED WITHOUT DAMAGING PROPERTY, CONTRACTOR MAY USE PAINT ONLY. ONCE STAKING IS COMPLETED, IT IS THE CONTRACTOR'S RESPONSIBILITY TO INFORM THE CITY OF AUSTIN'S CONSTRUCTION INSPECTOR WITHIN TWENTY-FOUR HOURS. THE CITY OF AUSTIN'S CONSTRUCTION INSPECTOR WILL THEN COORDINATE A FIELD REVIEW OF THE SERVICE LOCATIONS WITH THE GENERAL PERMIT PROGRAM COORDINATOR AND PROPERTY OWNERS. SERVICE LINE LOCATIONS MAY BE ADJUSTED BASED ON THE REVIEW AND WILL BE RESTAKED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE CONTRACT. ALL SERVICE LINE STAKING SHALL BE MAINTAINED UNTIL THE SERVICE IS INSTALLED.

NOTES:
GENERAL PERMIT PROGRAM APPROVAL DOES NOT CONSTITUTE UTILITY ALIGNMENT/ASSIGNMENT APPROVAL.
RELEASE OF THIS APPLICATION DOES NOT CONSTITUTE A VERIFICATION OF ALL DATA, INFORMATION AND CALCULATIONS SUPPLIED BY THE APPLICANT. THE ENGINEER OF RECORD IS SOLELY RESPONSIBLE FOR THE COMPLETENESS, ACCURACY, AND ADEQUACY OF HIS/HER SUBMITTAL, WHETHER OR NOT THE APPLICATION IS REVIEWED FOR CODE COMPLIANCE BY CITY ENGINEERS.

GENERAL PERMIT PROGRAM CORRECTIONS RECORD

FOR USE BY GENERAL PERMIT OFFICE ONLY

NO	DESCRIPTION	BY	CORRECT (C) ADD (D) VOID (V) SHEET NO.'s	TOTAL # SHEETS IN CORRECTION PLAN SET	GENERAL PERMIT PROGRAM APPROVAL	APPROVAL DATE



WATER PRESSURE ZONE: LOCATION			
LOCATION	MIN.	TYP.	MAX.

[NUMBER]
AULCC NUMBER

PROJECT INFORMATION:

STREET ADDRESS:
RED RIVER ST. FROM 6TH TO 10TH ST.
AUSTIN, TX 78701

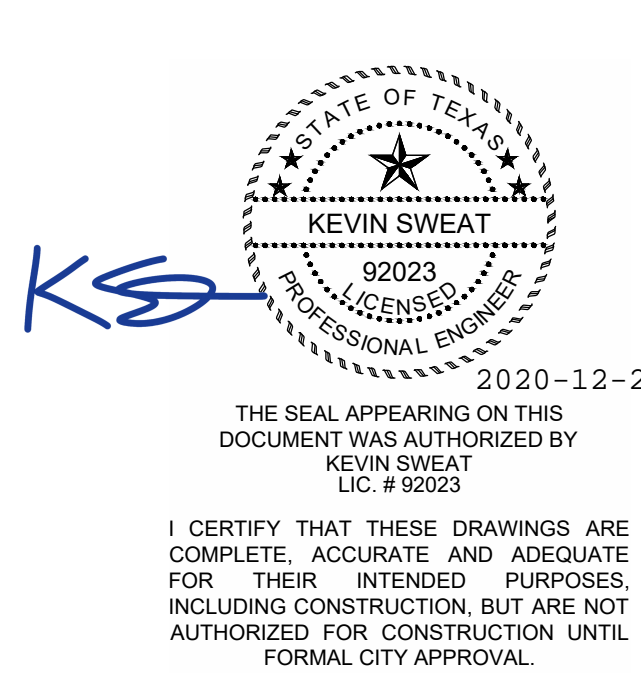
CLIENT/SPONSOR:
CITY OF AUSTIN
ECONOMIC DEVELOPMENT DEPARTMENT
301 W. 2ND ST.
AUSTIN, TX 78701

PROJECT MANAGEMENT:
CITY OF AUSTIN
PUBLIC WORKS DEPARTMENT
PROJECT MANAGEMENT DIVISION
505 BARTON SPRINGS RD., STE. 900
AUSTIN, TEXAS 78704

CONTACT:
NICOLE KLEPADLO
PHONE: (512) 974-7739
EMAIL: NICOLE.KLEPADLO@austintexas.gov

CONTACT:
JOSE IBARRA, P.E.
PHONE: (512) 974-7195
EMAIL: JOSE.IBARRA@austintexas.gov

SUBMITTAL PREPARED BY:



ESD
ENGINEERING SERVICES
DIVISION
CITY OF AUSTIN
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES DIVISION
505 BARTON SPRINGS RD., STE. 900
AUSTIN, TEXAS 78704

CONTACT:
KEVIN SWEAT, P.E.
PHONE: (512) 974-7017
EMAIL: KEVIN.SWEAT@austintexas.gov

APPROVED BY GENERAL PERMIT HOLDER:

FOR GENERAL PERMIT HOLDER DATE

GP-2020-0000.PWD
ANNUAL GENERAL PERMIT NUMBER

REVIEWED BY:

AUSTIN FIRE DEPARTMENT DATE

AUSTIN TRANSPORTATION DEPARTMENT DATE

APPROVAL FOR SITE DEVELOPMENT PERMIT:






















































































































































































GENERAL PERMIT PROGRAM COORDINATOR
DEVELOPMENT SERVICES DEPARTMENT DATE

GP-2020-____.PWD
GENERAL PERMIT NUMBER DATE

[SUBMITTAL DATE]
SUBMITTAL DATE

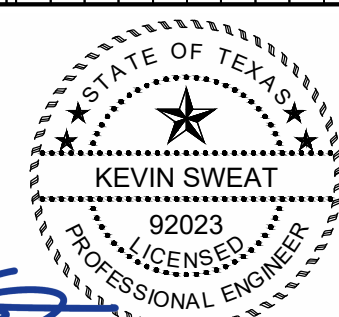
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EXISTING FEATURES

	CENTERLINE		BRASS DISK FOUND		STORM DRAIN AREA INLET		COMMUNICATION PEDESTAL
	RIGHT OF WAY LINE		BRASS DISK SET		DRAINAGE ARROW		COMM. JUNCTION BOX
	PROPERTY LINE		BOLT FOUND		STORM DRAIN CURB INLET		COMMUNICATION MANHOLE
	EASEMENT LINE		BOLT SET		STORM DRAIN CLEANOUT		COMMUNICATION POLE
	FLOOD HAZARD ZONE 25 YEAR		BENCHMARK FOUND		STORM DRAIN GRATE INLET		COMMUNICATION VAULT
	FLOOD HAZARD ZONE 100 YEAR		BENCHMARK SET		STORM DRAIN HEADWALL		FIBER OPTIC MANHOLE
	CRITICAL WATER QUALITY ZONE		CALCULATED POINT		STORM DRAIN MANHOLE		FIBER OPTIC JUNCTION BOX
	TRANSITION WATER QUALITY ZONE		CONTROL POINT FOUND		STORM DRAIN WINGWALL		ELECTRIC ANCHOR
	DRAINAGE EDGE		CONTROL POINT SET				ELECTRIC JUNCTION BOX
	DRAINAGE CENTERLINE		COTTON SPINDLE FOUND		WASTEWATER AR VALVE		ELECTRIC LIGHT POLE
	DITCH EDGE		COTTON SPINDLE SET		WWTR BACKFLOW PRVN.		ELECTRIC MANHOLE
	TIME OF CONCENTRATION		DRILL HOLE FOUND		WASTEWATER CLEANOUT		ELECTRIC METER
	MAJOR CONTOURS		DRILL HOLE SET		WASTEWATER FLOW METER		ELECTRIC POLE
	MINOR CONTOURS		HUB & TACK FOUND		WWTR LIFT STATION		ELECTRIC PULL BOX
	PAVED ROAD EDGE		HUB & TACK SET		WASTEWATER MANHOLE		ELECTRIC VAULT
	PAVED PARKING / DRIVEWAY EDGE		IRON PIPE FOUND		WASTEWATER METER		ELECTRIC TOWER
	GRAVEL EDGE		IRON PIPE SET		WWTR SRVC. CONNECTION		CHILLED WATER MANHOLE
	CURB LINE		IRON ROD FOUND		WASTEWATER VAULT		CHILLED WATER VALVE
	BUILDING LINE		IRON ROD SET		WASTEWATER VALVE		NATURAL GAS LIGHT
	GUARDRAIL		MONUMENT FOUND				NATURAL GAS MANHOLE
	HANDRAIL		MONUMENT SET		WATER AF VALVE		NATURAL GAS METER
	CHAINLINK FENCE		MAGNAIL FOUND		WATER AR VALVE AUTO		NATURAL GAS VALVE
	BARBWIRE FENCE		MAGNAIL SET		WATER AR VALVE COMBO		NATURAL GAS VENT
	WOOD FENCE		PROPERTY PIN FOUND		WATER AR VALVE MANUAL		IRRIG. CONTROL VALVE
	STEEL FENCE		PROPERTY PIN SET		WATER BACKFLOW PREV.		SPRINKLER CONTROL VALVE
	FENCE LINE		TEMP. BENCHMARK FOUND		WATER BOUNDARY VALVE		SPRINKLER HEAD
	STONE / ROCK WALL		TEMP. BENCHMARK SET		WATR / WWTR CAP		IRRIGATION HOSE BIB
	BRICK WALL		CROSS FOUND		WATER CHECK VLV. SINGLE		RECLAIMED WATER MANH.
	TREE LINE		CROSS SET		WATER CHECK VLV. DOUBLE		RECLAIMED WATER METER
	COMMUNICATION OVERHEAD		BIKE RACK		WATER DRAINAGE VALVE		RECLAIMED WATER VALVE
	COMMUNICATION UNDERGROUND		BOLLARD		WATER DRAINAGE MANHOLE		TRAFFIC SIGNAL MANHOLE
	FIBER OPTIC OVERHEAD		BENCH		WATER FIRE CONNECTION		TRAF. SIGNAL CONTROL BOX
	FIBER OPTIC UNDERGROUND		BUS STOP		WATER FIRE HYDRANT		TRAFFIC SIGNAL PULL BOX
	TRAFFIC SIGNAL OVERHEAD		GARBAGE CAN		WATER FLOW METER		TRAF. SIGNAL / PED SIGNAL
	TRAFFIC SIGNAL UNDERGROUND		GUARDRAIL POST		WATER HANDHOLE		TRAF. SIGNAL LIGHT & SIGN.
	ELECTRIC OVERHEAD		MAILBOX		WATER HYD. PRS. RLS. VLV.		TRAF. SIGNAL SIGN. EXTEND.
	ELECTRIC UNDERGROUND		PARKING METER		WATER MANHOLE		
	CHILLED WATER LINE		POST		WATR / WWTR MAT. CHANGE		
	CHILLED WATER ABANDONED		SIGN		WATER METER		
	NATURAL GAS LINE		MANHOLE UNKNOWN		WATER MONITOR WELL		
	NATURAL GAS ABANDONED		TEST PIT		WATR / WWTR PLUG		
	RECLAIMED WATER LINE		BORE HOLE		WATR / WWTR PROJ. SEP.		
	RECLAIMED WATER ABANDONED		RAILROAD SIGNAL		WATER PRS. RLS. VALVE		
	IRRIGATION LINE		SHRUB		WATER PRS. SUST. VALVE		
	IRRIGATION ABANDONED		TREE		WATR / WWTR REDUCER		
	STORM DRAIN LINE				WATER SRVC. CONNECTION		
	STORM DRAIN ABANDONED				WATER SHUTOFF VALVE		
	WATER LINE				WATER VAULT		
	WATER ABANDONED				WATER VALVE		
	WASTEWATER LINE				WATER VAC. RLS. VALVE		
	FORCE MAIN LINE				WATER WELL		
	WASTEWATER ABANDONED						
	FORCE MAIN ABANDONED						

PROPOSED FEATURES

	CENTERLINE		IRRIGATION LINE		COMMUNICATION PEDESTAL
	RIGHT OF WAY LINE		IRRIGATION TO ABANDON		COMM. JUNCTION BOX
	PROPERTY LINE		IRRIGATION DEMOLITION		COMMUNICATION MANHOLE
	EASEMENT LINE		STORM DRAIN LINE		COMMUNICATION POLE
	FLOOD HAZARD ZONE 25 YEAR		STORM DRAIN TO ABANDON		COMMUNICATION VAULT
	FLOOD HAZARD ZONE 100 YEAR		STORM DRAIN DEMOLITION		FIBER OPTIC MANHOLE
	CRITICAL WATER QUALITY ZONE		PERFORATED DRAIN		FIBER OPTIC JUNCTION BOX
	TRANSITION WATER QUALITY ZONE		WATER LINE		ELECTRIC ANCHOR
	DRAINAGE EDGE		WATER TO ABANDON		ELECTRIC JUNCTION BOX
	DRAINAGE CENTERLINE		WATER DEMOLITION		ELECTRIC LIGHT POLE
	DITCH EDGE		WASTEWATER LINE		ELECTRIC MANHOLE
	TIME OF CONCENTRATION		FORCE MAIN LINE		ELECTRIC METER
	MAJOR CONTOURS		WASTEWATER TO ABANDON		ELECTRIC POLE
	MINOR CONTOURS		FORCE MAIN TO ABANDON		ELECTRIC PULL BOX
	PAVED ROAD EDGE		WASTEWATER DEMOLITION		ELECTRIC VAULT
	PAVED PARKING / DRIVEWAY EDGE		FORCE MAIN DEMOLITION		ELECTRIC TOWER
	GRAVEL EDGE				CHILLED WATER MANHOLE
	PAVED ROAD DEMOLITION				CHILLED WATER VALVE
	PAVED PARKING DEMOLITION				NATURAL GAS LIGHT
	CURB LINE				NATURAL GAS MANHOLE
	CURB LINE DEMOLITION				NATURAL GAS METER
	BUILDING LINE				NATURAL GAS VALVE
	GUARDRAIL				NATURAL GAS VENT
	GUARDRAIL DEMOLITION				IRRIG. CONTROL VALVE
	HANDRAIL				SPRINKLER CONTROL VALVE
	HANDRAIL DEMOLITION				SPRINKLER HEAD
	CHAINLINK FENCE				IRRIGATION HOSE BIB
	STEEL FENCE				TRAFFIC SIGNAL MANHOLE
	FENCE DEMOLITION (GENERIC)				TRAF. SIGNAL CONTROL BOX
	STONE / ROCK WALL				TRAFFIC SIGNAL PULL BOX
	BRICK WALL				TRAF. SIGNAL / PED SIGNAL
	TRAFFIC CONE LINE				TRAF. SIGNAL LIGHT & SIGN.
	TRANSVERSE JOINT				TRAF. SIGNAL SIGN. EXTEND.
	LONGITUDINAL JOINT				
	EROSION ROCK BERM		BIKE RACK		WATER AF VALVE
	EROSION DIVERSION DIKE		BOLLARD		WATER AR VALVE AUTO
	EROSION MULCH SOCK		BENCH		WATER AR VALVE COMBO
	EROSION SILT FENCE		BUS STOP		WATER AR VALVE MANUAL
	EROSION TRI-FILTER DIKE		GARBAGE CAN		WATER BACKFLOW PREV.
	EROSION TREE PROTECTION		GUARDRAIL POST		WATER BOUNDARY VALVE
	LIMITS OF CONSTRUCTION		MAILBOX		WATR / WWTR CAP
	COMMUNICATION OVERHEAD		PARKING METER		WATER CHECK VLV. SINGLE
	COMMUNICATION UNDERGROUND		POST		WATER CHECK VLV. DOUBLE
	COMMUNICATION DEMOLITION		SIGN		WATER DRAINAGE VALVE
	TRAFFIC SIGNAL OVERHEAD		SHRUB		WATER DRAINAGE MANHOLE
	TRAFFIC SIGNAL UNDERGROUND		TREE		WATER FIRE CONNECTION
	TRAFFIC SIGNAL DEMOLITION				WATER FIRE HYDRANT
	ELECTRIC OVERHEAD				WATER FLOW METER
	ELECTRIC UNDERGROUND				WATER HANDHOLE
	ELECTRIC DEMOLITION				WATER HYD. PRS. RLS. VLV.
	CHILLED WATER LINE				WATER MANHOLE
	CHILLED WATER TO ABANDON				WATR / WWTR MAT. CHANGE
	CHILLED WATER DEMOLITION				WATER METER
	RECLAIMED WATER LINE				WATER MONITOR WELL
	RECLAIMED WATER TO ABANDON				WATR / WWTR PLUG
	RECLAIMED WATER DEMOLITION				WATR / WWTR PROJ. SEP.
					WATER PRS. RLS. VALVE
					WATER PRS. SUST. VALVE
					WATR / WWTR REDUCER
					WATER SRVC. CONNECTION
					WATER SHUTOFF VALVE
					WATER VAULT
					WATER VALVE
					WATER VAC. RLS. VALVE
					WATER WELL
	STORM DRAIN AREA INLET		WASTEWATER AR VALVE		
	DRAINAGE ARROW		WWTR BACKFLOW PRVN.		
	STORM DRAIN CURB INLET		WASTEWATER CLEANOUT		
	STORM DRAIN CLEANOUT		WASTEWATER FLOW METER		
	STORM DRAIN GRATE INLET		WWTR LIFT STATION		
	STORM DRAIN HEADWALL		WASTEWATER MANHOLE		
	STORM DRAIN MANHOLE		WASTEWATER METER		
	STORM DRAIN WINGWALL		WWTR SRVC. CONNECTION		
			WASTEWATER VAULT		
			WASTEWATER VALVE		
	RECLAIMED WATER MANH.				
	RECLAIMED WATER METER				
	RECLAIMED WATER VALVE				

[illegible]

2020-12-22
THE SEAL APPEARING ON THIS
DOCUMENT WAS AUTHORIZED BY
KEVIN SWEAT

I CERTIFY THAT THESE DRAWINGS ARE COMPLETE, ACCURATE AND ADEQUATE FOR THEIR INTENDED PURPOSES, INCLUDING CONSTRUCTION, BUT ARE NOT AUTHORIZED FOR CONSTRUCTION UNTIL FORMAL CITY APPROVAL.

CITY OF AUSTIN, TEXAS
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES DIVISION

RED RIVER ENHANCEMENT

LEGEND SHEET



NOTES	NAME	DATE
SURVEY BY		
DRAWN BY	DS	
DESIGNED BY	CN	
CHECKED BY	ESD	
REVIEWED BY	KS	



ENGINEERING SERVICES
DIVISION

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CITY OF AUSTIN
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES DIVISION

GENERAL CONSTRUCTION NOTES:

1. THE PROJECT MANUAL CONTAINS IMPORTANT INFORMATION THAT IS NOT REPEATED IN THE PLAN SET. THE CONTRACTOR SHALL KEEP THE PROJECT MANUAL ON SITE AND IMMEDIATELY AVAILABLE TO THOSE PERSONS PERFORMING THE WORK. UPON REQUEST, THE CONTRACTOR SHALL PRESENT THIS COPY OF THE PROJECT MANUAL TO THE CONSTRUCTION INSPECTOR, ENGINEER OR PROJECT MANAGER.

2. THE CONTRACTOR WILL NOTIFY THE OWNER'S REPRESENTATIVE FORTY-EIGHT (48) HOURS IN ADVANCE OF BEGINNING ANY CONSTRUCTION IN THE RIGHT OF WAY OR EASEMENTS.

3. CONTRACTOR AND SUB-CONTRACTORS MUST BE LICENSED BY THE CITY OF AUSTIN FOR CONDUCTING WORK WITHIN THE STREET RIGHT OF WAY, ALLEYS, OR EASEMENTS.

4. CONTRACTOR MUST OBTAIN RIGHT OF WAY EXCAVATION PERMITS, FOR EACH PROJECT LOCATION, FROM ROW MANAGEMENT DIVISION (512-974-7180) PRIOR TO COMMENCEMENT OF WORK. CONTRACTOR SHALL PROVIDE A ONE CALL CENTER CONFIRMATION NUMBER BEFORE BEING ISSUED AN EXCAVATION PERMIT. "ONE CALL" PHONE NUMBER: 811.

5. PRE-CONSTRUCTION MEETINGS: THERE ARE TWO ENTITIES THAT HOLD PRE-CONSTRUCTION MEETINGS. THESE MEETINGS TYPICALLY DO NOT OCCUR AT THE SAME TIME. FOR PRE-CONSTRUCTION MEETING HELD BY CONSTRUCTION INSPECTION DIVISION, SEE PROJECT MANUAL SECTION 01200; FOR ENVIRONMENTAL PRE-CONSTRUCTION MEETING, SEE ENVIRONMENTAL NOTES.

6. THE CONTRACTOR SHALL NOTIFY EACH OF THE FOLLOWING ENTITIES OF THE CONSTRUCTION SCHEDULE AT LEAST TWO WEEKS IN ADVANCE OF PROPOSED CONSTRUCTION OPERATIONS AND PROVIDE PERTINENT INFORMATION ABOUT LANE CLOSURES AND DETOURS.

AUSTIN FIRE DEPARTMENT.....512-974-0130

AUSTIN POLICE DEPARTMENT.....512-974-5000

EMERGENCY MEDICAL SERVICES.....512-978-0440

AUSTIN INDEPENDENT SCHOOL DISTRICT.....512-414-9832

CAPITAL METRO TRANSIT AUTHORITY.....512-389-7400

U.S. POSTAL SERVICE.....512-342-1236

UNIVERSITY OF TEXAS

(Facilities Services).....512-471-4110

(Parking and Trans).....512-471-7275

(Utilities and Energy Mgmt).....512-471-1600

(University Police).....512-471-4441

(Project Mgmt & Const. Svcs).....512-471-3042

STATE OF TEXAS

DPS TEXAS HWY PATROL (Region 7 Austin Capitol).....512-463-3473

7. THE INFORMATION SHOWN ON THESE DRAWINGS INDICATING TYPE AND LOCATION OF SURFACE, SUBSURFACE, AND AERIAL UTILITIES IS NOT GUARANTEED TO BE EXACT OR COMPLETE. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE EXACT TYPE AND LOCATION OF ALL UTILITIES AFFECTED BY THE CONSTRUCTION IN ORDER TO AVOID DAMAGING THOSE UTILITIES.

8. THE CONTRACTOR SHALL COORDINATE WITH OTHER CONTRACTORS AND UTILITIES IN THE VICINITY OF THIS PROJECT. THIS INCLUDES, BUT IS NOT LIMITED TO, GAS, WATER, WASTEWATER, ELECTRIC, TELEPHONE, CABLE TELEVISION, PETROLEUM PIPELINES, FIBER OPTIC, STREET, DRAINAGE, AND ANY OTHER WORK OCCURRING IN OR NEAR THE PROJECT SITE. ONCE THE CONTRACTOR BECOMES AWARE OF A POSSIBLE CONFLICT, IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE OWNER'S REPRESENTATIVE IMMEDIATELY, BUT NO LATER THAN TWENTY-FOUR (24) HOURS AFTER DISCOVERY.

9. SHOULD THE CONTRACTOR DAMAGE A UTILITY DURING THE COURSE OF THE WORK, THE CONTRACTOR SHALL IMMEDIATELY ARRANGE FOR REPAIR AND RESTORATION OF THE DAMAGED UTILITY. THE EXPENSE FOR THESE REPAIRS WILL BE AT THE CONTRACTOR'S SOLE EXPENSE.

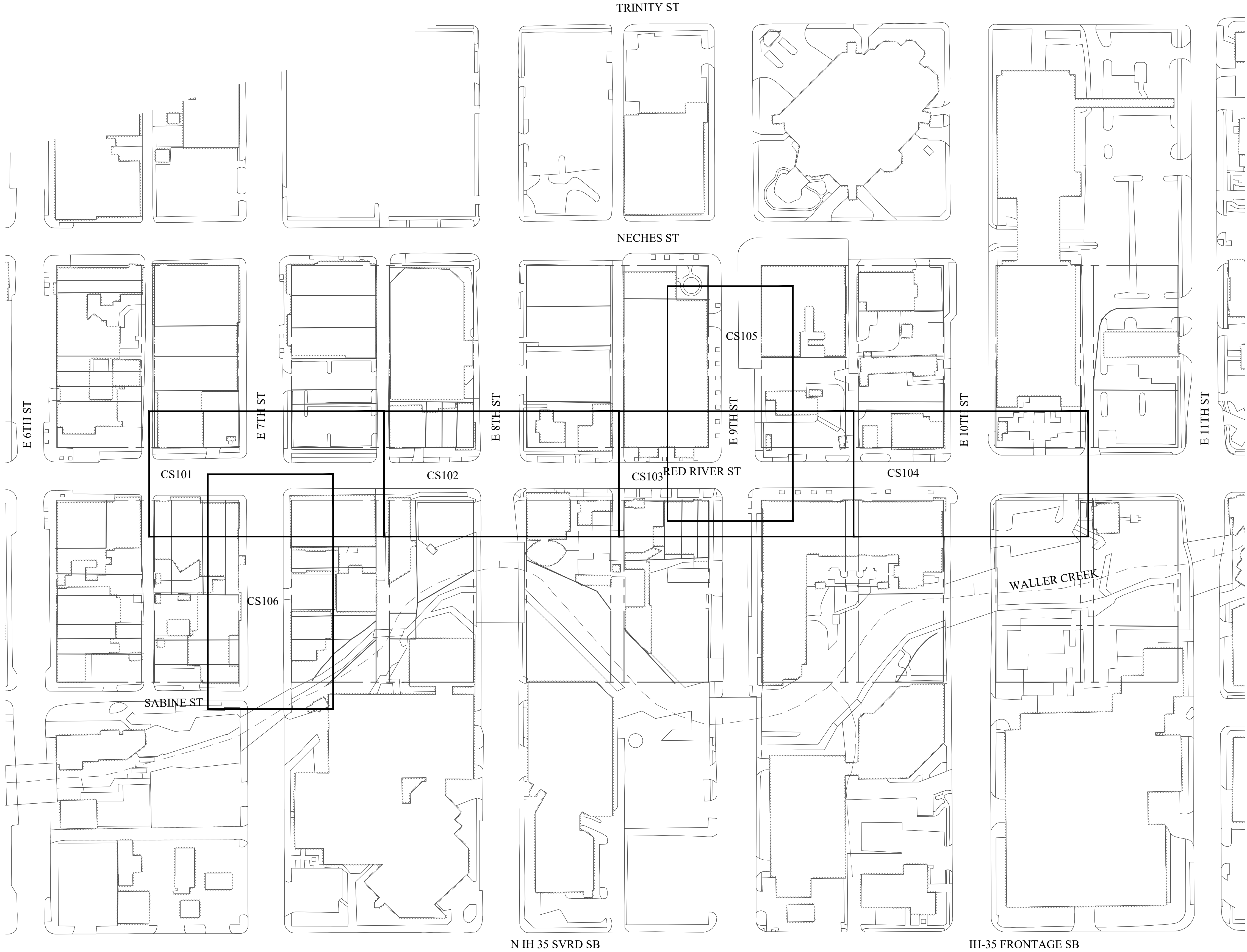
10. ALL EXISTING STRUCTURES, FACILITIES, AND UTILITIES DAMAGED BY CONSTRUCTION SHALL BE REMOVED AND RESTORED WITH MATERIALS EQUAL TO OR BETTER THAN THE ORIGINAL AND TO CONDITIONS EQUAL TO OR BETTER THAN THE ORIGINAL. UNLESS OTHERWISE NOTED IN THE PLANS, THIS WILL NOT BE MEASURED AND PAID FOR DIRECTLY, BUT SHALL BE AT THE CONTRACTOR'S SOLE EXPENSE.

11. SLOPES OF ROADWAY CUTS AND EMBANKMENTS DAMAGED BY ANY OPERATION OF THE CONTRACTOR DURING THE EXECUTION OF THIS PROJECT SHALL BE REPAIRED AND RESTORED TO THE ORIGINAL PRE-CONSTRUCTION CONDITION. BACKFILL AND FILL PLACED DURING REMEDIAL GRADING SHALL BE COMPACTED TO AT LEAST 95% COMPACTION AND TO THE SATISFACTION OF THE ENGINEER AND GOVERNING AUTHORITIES.

12. GEOTECHNICAL INFORMATION IS PROVIDED IN THE PROJECT MANUAL SECTION 00220.

13. SEE PROJECT MANUAL SECTION 01300 FOR RECORD DRAWINGS INFORMATION.
- STREET AND BRIDGE SPECIAL NOTE:
- ALL DAMAGE CAUSED DIRECTLY OR INDIRECTLY TO THE STREET SURFACE, SIDEWALK, DRIVEWAY, CURB & GUTTER, OR SUBSURFACE OUTSIDE OF THE PAVEMENT CUT AREA SHALL BE REGARDED AS A PART OF THE STREET CUT REPAIR. THIS INCLUDES ANY SCRAPES, GOUGES, CUTS, CRACKING, DEPRESSIONS, AND/OR ANY OTHER DAMAGE CAUSED BY THE CONTRACTOR DURING THE EXECUTION OF THE WORK. THESE REPAIR AREAS WILL BE INCLUDED IN THE TOTAL AREA OF RESTORATION. THESE AREAS SHALL BE SAW CUT IN STRAIGHT, NEAT LINES PARALLEL TO THE EXCAVATION OR UTILITY TRENCH AND TO THE NEXT EXISTING JOINT FOR SIDEWALKS AND CURB & GUTTER. ALL SUCH REPAIRS SHALL BE AT THE CONTRACTOR'S EXPENSE AND SHALL MEET ALL CITY TESTING REQUIREMENTS, STANDARDS, AND SPECIFICATIONS.
- SEQUENCE OF CONSTRUCTION
1. SEE ENVIRONMENTAL NOTES FOR SEQUENCE OF CONSTRUCTION AND NECESSARY PRE- AND POST-INSPECTIONS BY ENVIRONMENTAL INSPECTOR.

2. DEMOLITION SHOULD ONLY INCLUDE AREAS THAT WILL BE RE-CONSTRUCTED WITHIN TWO WEEKS UNLESS OTHERWISE APPROVED BY OWNER'S REPRESENTATIVE.
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- 2021-01-14
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I CERTIFY THAT THESE DRAWINGS ARE COMPLETE, ACCURATE AND ADEQUATE FOR THEIR INTENDED PURPOSES, INCLUDING CONSTRUCTION, BUT ARE NOT AUTHORIZED FOR CONSTRUCTION UNTIL FORMAL CITY APPROVAL.
- CITY OF AUSTIN, TEXAS
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES DIVISION
- RED RIVER
ENHANCEMENT
- GENERAL CONSTRUCTION NOTES
-
- | NOTES | NAME | DATE |
|-------------|------|------|
| SURVEY BY | | |
| DRAWN BY | DS | |
| DESIGNED BY | CN | |
| CHECKED BY | ESD | |
| REVIEWED BY | KS | |
- ENGINEERING SERVICES
DIVISION
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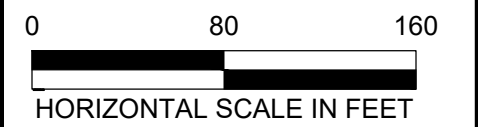
CITY OF AUSTIN, TEXAS
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES DIVISION

RED RIVER
ENHANCEMENT

PROJECT OVERVIEW
PLAN



NOTES	NAME	DATE
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CHECKED BY	ESD	
REVIEWED BY	KS	



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GENERAL PERMIT PROGRAM (GPP)
STANDARD ENVIRONMENTAL NOTES:

ADDITIONAL AREAS:

- ANY ADDITIONAL AREAS REQUIRED FOR CONSTRUCTION OF THIS PROJECT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. CONTRACTOR MUST SECURE CITY OF AUSTIN APPROVAL OF PROPOSED ADDITIONAL AREAS PRIOR TO USE. APPROVAL OF "CORRECTION REQUEST" MUST BE SECURED FROM THE GENERAL PERMIT PROGRAM OFFICE OF THE PLANNING AND DEVELOPMENT REVIEW DEPARTMENT.
- ALL ASSOCIATED PERMITS AND FEES SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- IN ORDER TO SECURE APPROVAL FOR USE OF ADDITIONAL AREAS, CONTRACTOR MUST PROVIDE COMPLETE "CORRECTION REQUEST" SUBMITTAL TO GENERAL PERMIT PROGRAM OFFICE AND ALLOW A ONE WEEK COMMENT PERIOD FOR EACH REVIEW. CONTRACTOR SHOULD REQUEST INFORMATION ON THE ELEMENTS REQUIRED TO BE INCLUDED IN THE SUBMITTAL FROM THE OWNER'S REPRESENTATIVE OR THE GENERAL PERMIT PROGRAM OFFICE.
- CONTRACTOR MUST INSTALL AND MAINTAIN EROSION/SEDIMENTATION CONTROLS AND TREE PROTECTION FOR ALL SUCH AREAS IN ACCORDANCE WITH THE CITY OF AUSTIN ENVIRONMENTAL CRITERIA MANUAL AND AS INCLUDED IN THE APPROVED SUBMITTAL OR DIRECTED IN THE FIELD BY THE GENERAL PERMIT PROGRAM REPRESENTATIVE.
- A SIGNED COPY OF THE PLANS PERMITTED THROUGH THE GENERAL PERMIT PROGRAM MUST BE KEPT ON SITE AND ACCESSIBLE AT ALL TIMES DURING PROJECT CONSTRUCTION.

DEWATERING:

CONTRACTOR IS RESPONSIBLE FOR DEWATERING OF WORK AREA. CONTRACTOR MUST SECURE CITY OF AUSTIN APPROVAL OF PROPOSED DEWATERING PROCEDURES PRIOR TO INSTALLATION OR USE. APPROVAL MUST BE SECURED FROM THE GENERAL PERMIT PROGRAM (GPP) OFFICE OF THE PLANNING AND DEVELOPMENT REVIEW DEPARTMENT. CONTRACTOR MUST PROVIDE COMPLETE SUBMITTAL TO GPP OFFICE AND ALLOW AN ONE WEEK (MIN.) COMMENT PERIOD FOR EACH REVIEW. CONTACT THE GPP OFFICE FOR SUBMITTAL REQUIREMENTS.

FUEL STORAGE:

FUEL STORAGE IS PROHIBITED ON THIS PROJECT. ADDITIONALLY, THE CONTRACTOR IS REQUIRED TO NOTIFY THE GENERAL PERMIT PROGRAM OFFICE IMMEDIATELY FOLLOWING ANY SPILL OF FUEL OR OTHER TOXIC MATERIAL. CONTRACTOR IS REQUIRED TO FOLLOW-UP WITH WRITTEN DOCUMENTATION, INCLUDING A COMPLETE DESCRIPTION OF THE INCIDENT, MATERIAL SPILLED, AND ACTIONS TAKEN TO CONTAIN AND CLEAN-UP MATERIAL.

FUGITIVE DUST CONTROL:

ALL PROJECTS APPROVED THROUGH THE GENERAL PERMIT PROGRAM (GPP) MUST COMPLY WITH THE CODE OF THE CITY OF AUSTIN AND THE ENVIRONMENTAL CRITERIA MANUAL REQUIREMENTS TO CONTROL AIRBORNE DUST. COMPLIANCE IS REQUIRED FOR ENTIRE PROJECT SITE AS WELL AS ASSOCIATED OPERATIONS. CONTACT THE GPP OFFICE FOR RECOMMENDED CONTROL METHODS.

SPOILS STORAGE:

NO SPOILS STORAGE IS ALLOWED WITHIN A CRITICAL WATER QUALITY ZONE, A 100-YEAR FLOODPLAIN, OR ON A SLOPE WITH A GRADIENT OF MORE THAN 15 PERCENT.

E/S CONTROLS FOR BORE / RECEIVING PIT LOCATIONS:

TEMPORARY E/S CONTROLS MUST SURROUND THE ENTIRETY OF BORING OPERATIONS, INCLUDING PIT, EQUIPMENT, ETC. FOR LOCATIONS WITHIN IMPERVIOUS AREAS, TEMPORARY CONTROL WILL BE TRIANGULAR FILTER DIKE (COA STANDARD DETAIL #628S). DIKE FLAP WILL BE CONTINUOUSLY WEIGHTED DOWN THROUGH THE USE OF 1" BY 4" WOOD STRIPS NAILED TO THE PAVEMENT, EXCEPT FOR THE ACCESS POINT. PLACEMENT OF TEMPORARY E/S CONTROLS ACROSS ACCESS POINT WILL BE REQUIRED WHENEVER THE SITE IS NOT ACTIVELY USED. FOR LOCATIONS WITHIN PERVIOUS AREAS, TEMPORARY CONTROL WILL BE SILT FENCE (COA STANDARD DETAIL #642S-1) OR MULCH SOCKS (COA STANDARD DETAIL #648S-1), AS INDICATED ON APPROVED PLANS.

SOIL RETENTION BLANKET:

UNLESS OTHERWISE INDICATED IN THE PROJECT DOCUMENTS, INSTALLATION OF SOIL RETENTION BLANKET WILL BE REQUIRED FOR ALL IMPACTED SLOPES GREATER THAN 3:1 AND ALL IMPACTED AREAS WITHIN DRAINAGE CONVEYANCES. (CITY OF AUSTIN STANDARD SPECIFICATION ITEM 605S) SOIL RETENTION BLANKET SUBMITTAL MUST BE APPROVED BY PROJECT ENGINEER AND GENERAL PERMIT PROGRAM (GPP) REPRESENTATIVE PRIOR TO USE AND MUST INCLUDE PRODUCT AND INSTALLATION DETAILS PROVIDED BY MANUFACTURER. FINISH GRADING MUST BE INSPECTED AND APPROVED BY GPP INSPECTOR PRIOR TO BLANKET INSTALLATION. INSTALLATION MUST BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND MUST BE INSPECTED AND APPROVED BY GPP REPRESENTATIVE PRIOR TO ACCEPTANCE.

SOD INSTALLATION:

REVEGETATION WITHIN MANAGED TURF AREAS MUST BE ACCOMPLISHED THROUGH THE INSTALLATION OF SOLID BLOCK GRASS SOD. SOD TYPE MUST MATCH ADJACENT GRASS TYPE. QUESTIONS REGARDING SOD TYPE WILL BE RESOLVED BY THE GENERAL PROGRAM PERMIT REPRESENTATIVE. REFER TO CITY OF AUSTIN STANDARD SPECIFICATION ITEM NO. 602S: SODDING FOR EROSION CONTROL, UNLESS OTHERWISE NOTED ON THE APPROVED PLANS.

TxDOT RIGHTS-OF-WAY:

TOPSOIL (TxDOT ITEM NO. 160), SOIL RETENTION BLANKET (TxDOT ITEM NO. 169), AND REVEGETATION (TxDOT ITEM NO. 164) INSTALLED WITHIN TEXAS DEPARTMENT OF TRANSPORTATION (TxDOT) RIGHT-OF-WAY SHALL COMPLY WITH "REQUIREMENTS FOR INSTALLATION OF UTILITIES WITHIN THE STATE RIGHT-OF-WAY, AUSTIN DISTRICT".

PROJECT SEQUENCE:
(REFER TO FULL PLAN SET FOR PROJECT-SPECIFIC ADDITIONS, IF APPLICABLE.)

PRIOR TO CONSTRUCTION:

- SECURE APPLICABLE COA PERMITS, INCLUDING APPROVAL UNDER GENERAL PERMIT PROGRAM AND RIGHT-OF-WAY EXCAVATION PERMIT.
- NOTIFY GENERAL PERMIT PROGRAM REPRESENTATIVE PRIOR TO PLACEMENT OF E/S CONTROLS AND TREE PROTECTION FENCING. ALL PROPOSED PHASING OF CONTROLS MUST BE SUBMITTED TO AND APPROVED BY THE GENERAL PERMIT PROGRAM REPRESENTATIVE PRIOR TO THE FIELD PRE-CONSTRUCTION CONFERENCE.
- NOTIFY COA TEMPORARY TRAFFIC CONTROL REPRESENTATIVE PRIOR TO PLACEMENT OF TEMPORARY TRAFFIC CONTROLS. ALL PROPOSED PHASING OF CONTROLS MUST BE INDICATED ON APPROVED TEMPORARY TRAFFIC CONTROL PLAN AND SEALED BY PROFESSIONAL ENGINEER.
- PLACE TEMPORARY E/S CONTROLS AND TREE PROTECTION FENCING PRIOR TO BEGINNING ANY EXCAVATION. INSTALL C.I.P. SIGN, IF APPLICABLE.
- HOLD ENVIRONMENTAL PRE-CONSTRUCTION CONFERENCE ON SITE WITH THE CONTRACTOR, OWNER'S REPRESENTATIVE, AND GENERAL PERMIT PROGRAM REPRESENTATIVE AFTER INSTALLATION OF E/S CONTROLS AND TREE PROTECTION FENCING AND PRIOR TO ANY TRENCHING OPERATIONS.
- PLACE TEMPORARY TRAFFIC CONTROL DEVICES.

PROJECT CONSTRUCTION:

- BEGIN CONSTRUCTION. NOTIFY GENERAL PERMIT PROGRAM REPRESENTATIVE A MINIMUM OF 48 HOURS IN ADVANCE OF TRANSITION BETWEEN PHASES.
- CONTACT GENERAL PERMIT OFFICE TO SCHEDULE FIELD INSPECTION PRIOR TO BEGINNING INSTALLATION OF PERMANENT E/S CONTROLS.
- COMPLETE RESTORATION OF ALL AREAS DISTURBED BY CONSTRUCTION ACTIVITIES FOR THIS PROJECT. (PERMANENT E/S CONTROLS)
- REMOVE TEMPORARY TRAFFIC CONTROL DEVICES RELATED TO WORK AREAS OUTSIDE OF THE STREET.
- HOLD ENVIRONMENTAL POST-CONSTRUCTION CONFERENCE ON SITE WITH THE CONTRACTOR, OWNER'S REPRESENTATIVE, AND GENERAL PERMIT PROGRAM REPRESENTATIVE. ALL PERMANENT E/S CONTROLS MUST BE ACCEPTED BY THE GENERAL PERMIT PROGRAM REPRESENTATIVE. PERMANENT CONTROLS SHALL CONSIST OF REVEGETATION PER DETAILS 602, 604S, AND 609S AS INDICATED ON APPROVED PLANS.
- FOLLOWING FINAL ACCEPTANCE OF PERMANENT E/S CONTROLS BY THE GENERAL PERMIT PROGRAM REPRESENTATIVE, REMOVE TEMPORARY E/S CONTROLS. CLEAN EXISTING STORM DRAINAGE SYSTEMS AS NECESSARY DUE TO CONSTRUCTION OPERATIONS.
- DRESS-UP AND RESTORE ANY AREAS DISTURBED BY REMOVAL OF TEMPORARY E/S CONTROLS DESCRIBED ABOVE.

REQUIRED SUBMITTALS:

SUBMITTALS REQUIRED TO BE APPROVED BY GENERAL PERMIT PROGRAM REPRESENTATIVE INCLUDE: SUBMITTALS TRIGGERED BY CITY OF AUSTIN SERIES 600 SPECIFICATIONS AND RELATED SPECIAL PROVISIONS/SPECIFICATIONS, CONSTRUCTION SCHEDULE, TREE PROTECTION, P-6 AND OTHER ROOT ZONE PROTECTION/MITIGATION MEASURES, DEWATERING PLAN, WATERING SCHEDULE FOR REVEGETATION AREAS, AND ANY VEGETATIVE REPLACEMENT PROPOSALS, IF NOT ALREADY PART OF THE PERMITTED PLAN SET.

CITY OF AUSTIN - STANDARD NOTES
TREE AND NATURAL AREA PROTECTION
(MODIFIED FOR USE ON GENERAL PERMIT PROJECTS)

- ALL TREES AND NATURAL AREAS SHOWN ON PLAN TO BE PRESERVED SHALL BE PROTECTED DURING CONSTRUCTION WITH TEMPORARY MEASURES.
- PROTECTIVE MEASURES SHALL BE INSTALLED ACCORDING TO CITY OF AUSTIN STANDARDS FOR TREE PROTECTION.
- PROTECTIVE MEASURES SHALL BE INSTALLED PRIOR TO THE START OF ANY SITE PREPARATION WORK (CLEARING, GRUBBING OR GRADING), AND SHALL BE MAINTAINED THROUGHOUT ALL PHASES OF THE PROJECT.
- EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE INSTALLED OR MAINTAINED IN A MANNER WHICH DOES NOT RESULT IN SOIL BUILD-UP, COMPACTION OR CUTTING OF CRITICAL ROOT ZONE WITHIN TREE DRIP LINES.
- TREE PROTECTION SHALL COMPLETELY SURROUND THE TREES OR GROUP OF TREES AND WILL BE LOCATED AT THE OUTERMOST LIMIT OF BRANCHES (DRIP LINE). FOR NATURAL AREAS, PROTECTIVE MEASURES SHALL FOLLOW THE LIMIT OF CONSTRUCTION LINE, IN ORDER TO PREVENT THE FOLLOWING:
 - SOIL COMPACTION IN THE ROOT ZONE AREA RESULTING FROM VEHICULAR TRAFFIC OR STORAGE OF EQUIPMENT OR MATERIALS;
 - ROOT ZONE DISTURBANCES DUE TO GRADE CHANGES (GREATER THAN 6 INCHES CUT OR FILL) OR TRENCHING NOT REVIEWED AND AUTHORIZED BY THE GENERAL PERMIT PROGRAM OFFICE OF THE PLANNING AND DEVELOPMENT REVIEW DEPARTMENT;
 - WOUNDS TO EXPOSED ROOTS, TRUNK OR LIMBS BY MECHANICAL EQUIPMENT;
 - OTHER ACTIVITIES DETRIMENTAL TO TREES SUCH AS CHEMICAL STORAGE, CEMENT TRUCK CLEANING, AND FIRES.
- EXCEPTIONS TO INSTALLING PROTECTIVE FENCES AT CRITICAL ROOT ZONES MAY BE PERMITTED IN THE FOLLOWING CASES:
 - WHERE THERE IS TO BE AN APPROVED GRADE CHANGE, IMPERMEABLE PAVING SURFACE, TREE WELL, OR OTHER SUCH SITE DEVELOPMENT, ERECT THE FENCE APPROXIMATELY 2 FEET BEYOND THE AREA DISTURBED;
 - WHERE PERMEABLE PAVING IS TO BE INSTALLED, ERECT THE FENCE AT THE OUTER LIMITS OF THE PERMEABLE PAVING AREA;

- WHERE TREES ARE CLOSE TO PROPOSED BUILDINGS, ERECT THE FENCE NO CLOSER THAN 6 FEET TO THE BUILDING;
- WHERE THERE ARE SEVERE SPACE CONSTRAINTS DUE TO TRACT SIZE, OR OTHER SPECIAL REQUIREMENTS, CONTACT THE GENERAL PERMIT PROGRAM OFFICE AT 974-6330 TO DISCUSS ALTERNATIVES.

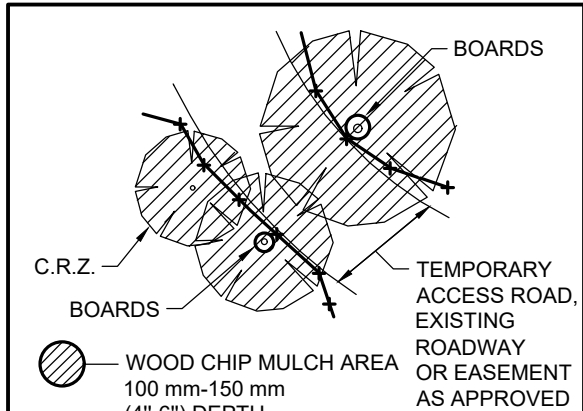
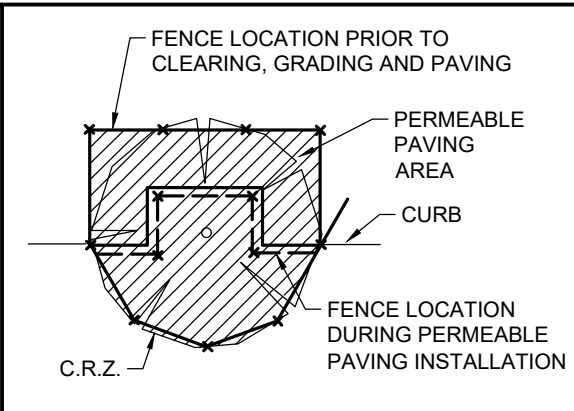
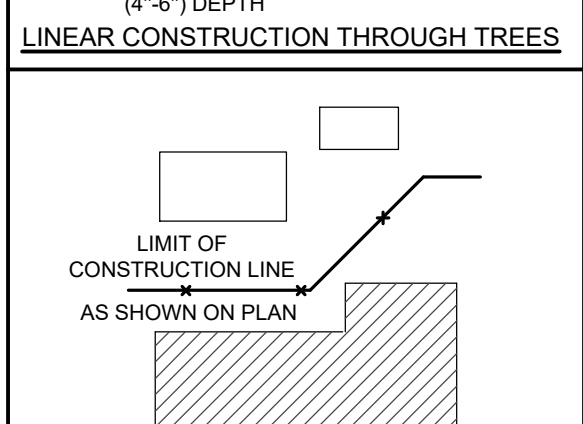
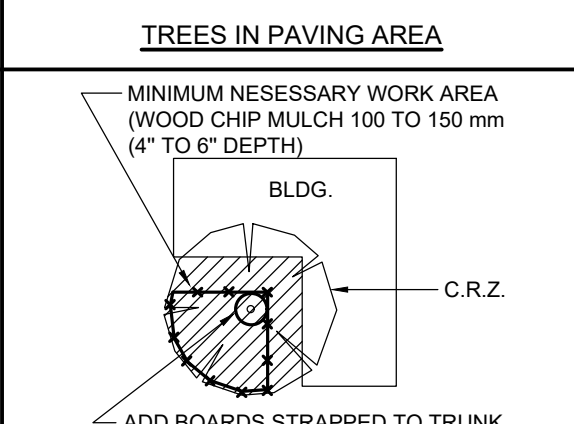
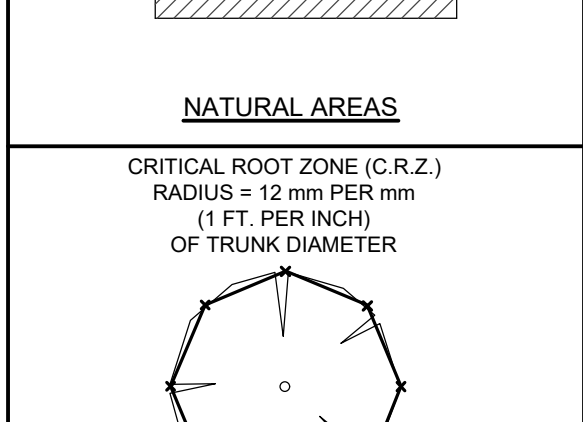
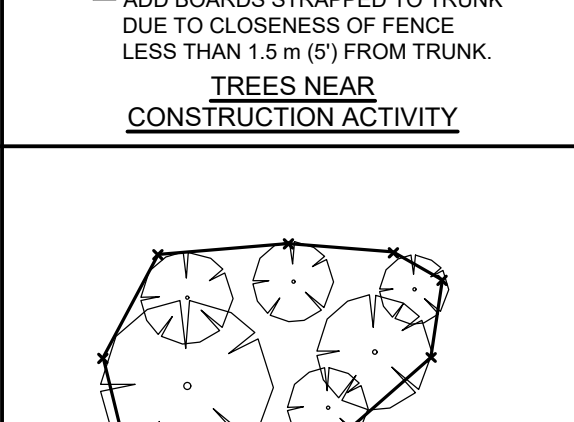
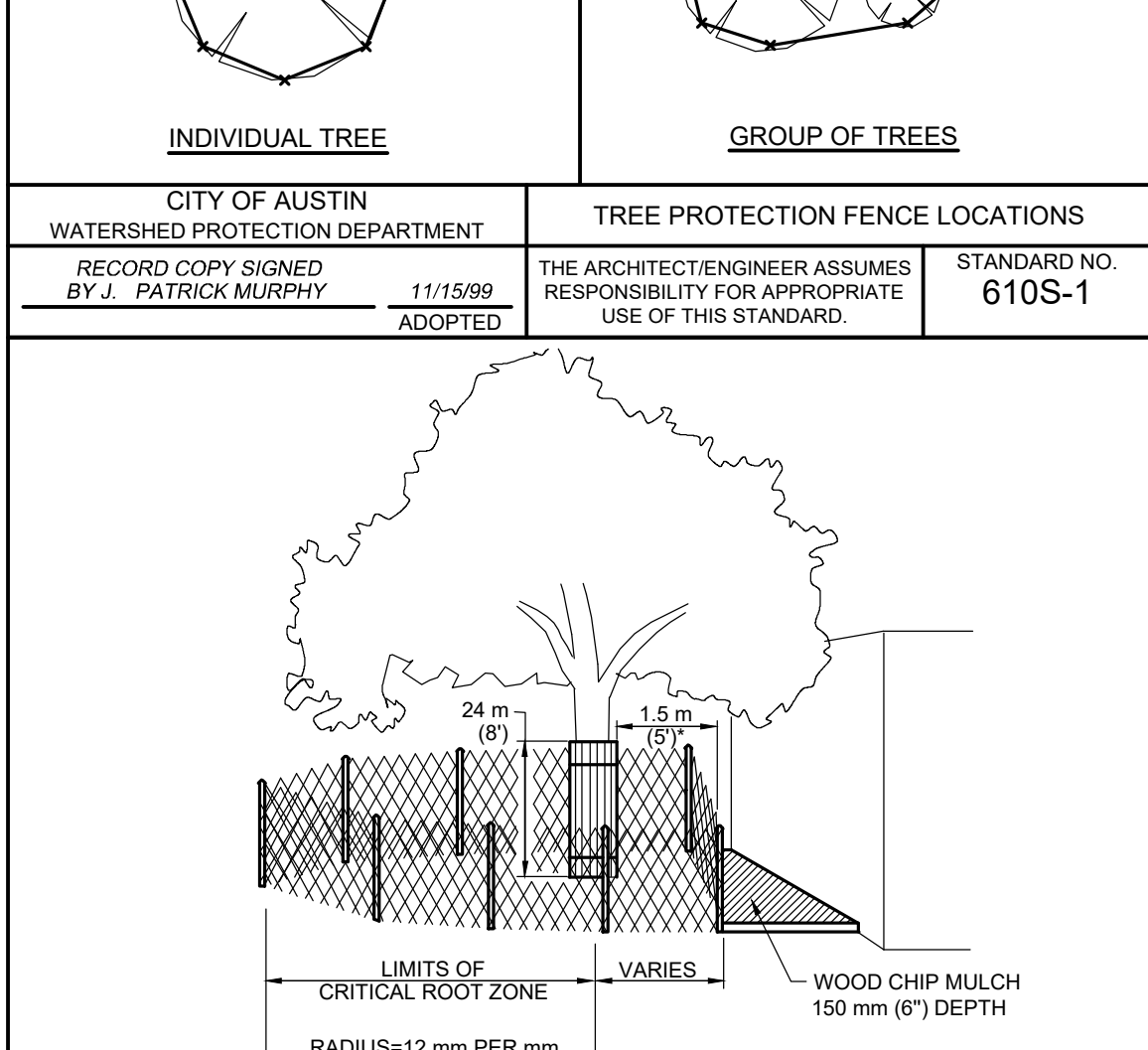
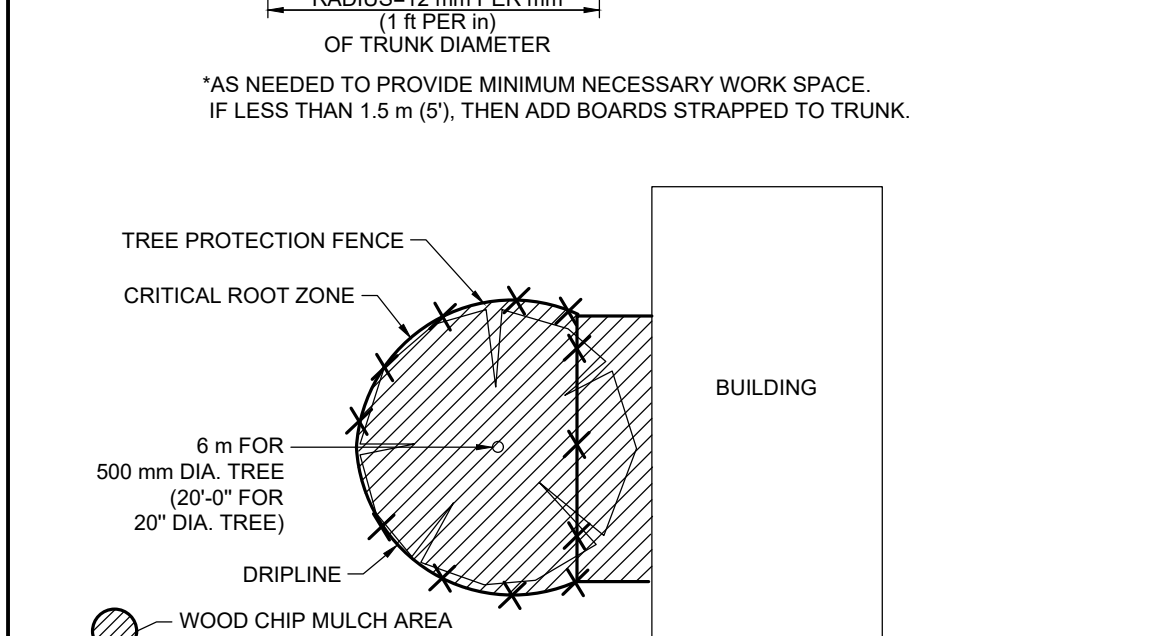
SPECIAL NOTE: FOR THE PROTECTION OF NATURAL AREAS, NO EXCEPTIONS TO INSTALLING FENCES AT THE LIMIT OF CONSTRUCTION LINE WILL BE PERMITTED.

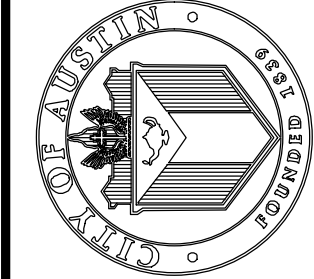
WHERE ANY OF THE ABOVE EXCEPTIONS RESULT IN A FENCE 5 FEET OR CLOSER TO A TREE TRUNK, PROTECT THE TRUNK WITH STRAPPED-ON PLANKING TO A HEIGHT OF 8 FEET (OR TO THE LIMITS OF LOWER BRANCHING) IN ADDITION TO THE REDUCED FENCING.

- WHERE ANY OF THE ABOVE EXCEPTIONS RESULT IN AREAS OF UNPROTECTED ROOT ZONES, THOSE AREAS SHOULD BE COVERED WITH 12 INCHES OF ORGANIC MULCH TO MINIMIZE SOIL COMPACTION DURING CONSTRUCTION. FILTER FABRIC UNDERLAYMENT MAY BE REQUIRED AT DIRECTION OF GENERAL PERMIT PROGRAM REPRESENTATIVE BASED ON SITE CONDITIONS AND CONSTRUCTION ACTIVITIES. MAXIMUM FOUR (4) INCHES DEPTH MAY BE LEFT IN PLACE AFTER CONSTRUCTION WITH APPROVAL FROM THE GENERAL PERMIT PROGRAM REPRESENTATIVE.
- ALL GRADING WITHIN PROTECTED ROOT ZONE AREAS SHALL BE DONE BY HAND OR WITH SMALL EQUIPMENT TO MINIMIZE ROOT DAMAGE. PRIOR TO GRADING, RELOCATE PROTECTIVE FENCES TO 2 FEET BEHIND THE GRADE CHANGE AREA.
- ANY ROOTS EXPOSED BY CONSTRUCTION ACTIVITY SHALL BE PRUNED FLUSH WITH THE SOIL. BACKFILL ROOT AREAS WITH GOOD QUALITY TOP SOIL AS SOON AS POSSIBLE. IF EXPOSED ROOT AREAS ARE NOT BACKFILLED WITHIN 2 DAYS, COVER THEM WITH ORGANIC MATERIAL IN A MANNER WHICH REDUCES SOIL TEMPERATURE AND MINIMIZES WATER LOSS DUE TO EVAPORATION.
- PRIOR TO EXCAVATION OR GRADE CUTTING WITHIN TREE DRIPLINES, MAKE A CLEAN CUT BETWEEN THE DISTURBED AND UNDISTURBED ROOT ZONES WITH A ROCK SAW OR SIMILAR EQUIPMENT TO MINIMIZE DAMAGE TO REMAINING ROOTS.
- TREES MOST HEAVILY IMPACTED BY CONSTRUCTION ACTIVITIES SHOULD BE WATERED DEEPLY ONCE A WEEK DURING PERIODS OF HOT, DRY WEATHER. TREE CROWNS SHOULD BE SPRAYED WITH WATER PERIODICALLY TO REDUCE DUST ACCUMULATION ON THE LEAVES.
- ANY TRENCHING REQUIRED FOR THE INSTALLATION OF LANDSCAPE IRRIGATION SHALL BE PLACED AS FAR FROM EXISTING TREE TRUNKS AS POSSIBLE.
- NO LANDSCAPE TOPSOIL DRESSING GREATER THAN 4 INCHES SHALL BE PERMITTED WITHIN THE DRIPLINE OF TREES. NO SOIL IS PERMITTED ON THE ROOT FLARE OF ANY TREE.
- PRUNING TO PROVIDE CLEARANCE FOR STRUCTURES, VEHICULAR TRAFFIC AND EQUIPMENT SHALL TAKE PLACE BEFORE CONSTRUCTION BEGINS. SEE NOTE FOUR (4) OF SUPPLEMENTAL TREE PROTECTION NOTES FOR ADDITIONAL REQUIREMENTS.
- ALL FINISHED PRUNING MUST BE DONE ACCORDING TO RECOGNIZED, APPROVED STANDARDS OF THE INDUSTRY (REFERENCE THE NATIONAL ARBORIST ASSOCIATION PRUNING STANDARDS FOR SHADE TREES AVAILABLE ON REQUEST FROM THE GENERAL PERMIT PROGRAM OFFICE).
- DEVIATIONS FROM THE ABOVE NOTES MAY BE CONSIDERED ORDINANCE VIOLATIONS IF THERE IS SUBSTANTIAL NONCOMPLIANCE OR IF A TREE SUSTAINS DAMAGE AS A RESULT.
- TREES APPROVED FOR REMOVAL SHALL BE REMOVED IN A MANNER WHICH DOES NOT IMPACT TREES TO BE PRESERVED.

SUPPLEMENTAL TREE PROTECTION NOTES

- ALL TREE PROTECTION MUST COMPLY WITH CITY OF AUSTIN REQUIREMENTS AS OUTLINED IN THE ENVIRONMENTAL CRITERIA MANUAL AND AS INDICATED BY STANDARD COA NOTES AND DETAILS INCLUDED WITHIN THIS DOCUMENT SET.CONTRACTOR SHALL INSTALL PROTECTION PRIOR TO PRE-CONSTRUCTION CONFERENCE, MAKE ADJUSTMENTS TO PROTECTION AS DIRECTED BY THE GPP REPRESENTATIVE, AND MAINTAIN PROTECTION UNTIL PROJECT IS COMPLETE.
- TYPE AND LOCATION OF ALL TREE PROTECTION MUST BE APPROVED IN THE FIELD BY THE GENERAL PERMIT PROGRAM (GPP) REPRESENTATIVE PRIOR TO CONSTRUCTION.
- WALK-THROUGH: CONTRACTOR SHALL CONDUCT WALK-THROUGH MEETING WITH GENERAL PERMIT PROGRAM REPRESENTATIVE PRIOR TO PERFORMING ANY PRUNING ACTIVITIES ON TREES IN PROJECT AREA. PURPOSE OF WALK-THROUGH WILL BE TWOFOLD. ONE PURPOSE WILL BE TO DETERMINE THE MINIMUM AMOUNT OF PRUNING NECESSARY TO ALLOW CONSTRUCTION WORK TO BE COMPLETED. SECOND PURPOSE WILL BE TO DETERMINE AREAS OF PROJECT IN WHICH EXHAUST DIVERTERS WILL BE REQUIRED ON CONSTRUCTION EQUIPMENT TO PREVENT SCORCHING OF EXISTING TREES.
- ALL PRUNING MUST BE PERFORMED IN ACCORDANCE WITH ANSI A300 (PART 1) - 2001 AMERICAN NATIONAL STANDARD FOR TREE CARE OPERATIONS (PRUNING), OR LATEST APPROVED VERSION. THIS DOCUMENT MAY BE OBTAINED ONLINE FOR A FEE AT WWW.ANSI.ORG.
- PRUNING SHALL BE DONE WITH CLEAN, SHARP TOOLS. TO PREVENT BARK TEARS, THE WEIGHT OF THE BRANCH SHALL BE REMOVED BEFORE MAKING FINAL PRUNING CUT.
- ALL PRUNING SHALL PRESERVE THE NATURAL CHARACTER OF THE TREE.
- ONLY COLLAR CUTS ARE ACCEPTABLE. NO FLUSH CUTS OR STUB CUTS WILL BE ALLOWED.
- ALL BRANCHES THAT ARE BROKEN OR DAMAGED DURING CONSTRUCTION SHALL BE REMOVED.
- PRUNING CUTS OR DAMAGED AREAS ON AN OAK TREE SHALL BE PAINTED WITHIN FIVE MINUTES WITH A STANDARD TREE WOUND DRESSING. TREE WOUND DRESSING SHALL BE EITHER TREKOTE AEROSOL OR TANGLEFOOT PRUNING SEALER (OR APPROVED EQUAL). THIS ALSO APPLIES TO WOUNDS CREATED BY CONSTRUCTION VEHICLES OR EQUIPMENT. ALL PRUNING MUST BE IN ACCORDANCE WITH COA OAK WILT PREVENTION POLICY.
- ANY TREE ROOTS THAT ARE EXPOSED, CUT, OR TORN DURING CONSTRUCTION ACTIVITY SHALL BE PRUNED FLUSH WITH THE SURROUNDING SOIL. (REFER ALSO TO NUMBER 9 OF THE TREE AND NATURAL AREA PROTECTION NOTES INCLUDED IN THIS PLAN SET.)
- ALL TRENCHING WITHIN THE CRITICAL ROOT ZONE OF A TREE TO BE PRESERVED WILL BE SAW CUT OR EXCAVATED BY HAND, AS APPROVED BY THE GENERAL PERMIT PROGRAM ARBORIST.
- REFER TO ENVIRONMENTAL CRITERIA MANUAL APPENDIX P-6 FOR FURTHER REMEDIAL TREE CARE REQUIREMENTS. P-6 REMEDIAL TREE CARE WILL BE COORDINATED WITH AND APPROVED BY THE GENERAL PERMIT PROGRAM ARBORIST FOR PROJECTS PERMITTED THROUGH THE GENERAL PERMIT PROGRAM.

 <p>LINEAR CONSTRUCTION THROUGH TREES</p>	 <p>TREES IN PAVING AREA</p>
 <p>NATURAL AREAS</p>	 <p>TREES NEAR CONSTRUCTION ACTIVITY</p>
 <p>INDIVIDUAL TREE</p>	 <p>GROUP OF TREES</p>
<p>CITY OF AUSTIN WATERSHED PROTECTION DEPARTMENT</p> <p>RECORD COPY SIGNED BY J. PATRICK MURPHY</p> <p>11/15/99 ADOPTED</p>	<p>TREE PROTECTION FENCE LOCATIONS</p> <p>THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.</p> <p>STANDARD NO. 610S-1</p>
 <p>*AS NEEDED TO PROVIDE MINIMUM NECESSARY WORK SPACE. IF LESS THAN 1.5 m (5'), THEN ADD BOARDS STRAPPED TO TRUNK.</p>	
 <p>TREE PROTECTION FENCE</p>	
<p>CITY OF AUSTIN WATERSHED PROTECTION DEPARTMENT</p> <p>RECORD COPY SIGNED BY J. PATRICK MURPHY</p> <p>11/15/99 ADOPTED</p>	<p>TREE PROTECTION FENCE MODIFIED TYPE A - CHAIN LINK</p> <p>THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.</p> <p>STANDARD NO. 610S-4</p>



GENERAL PERMIT OFFICE
TREE PROTECTION &
ENVIRONMENTAL NOTES
CITY OF AUSTIN STANDARD NOTES AND DETAILS

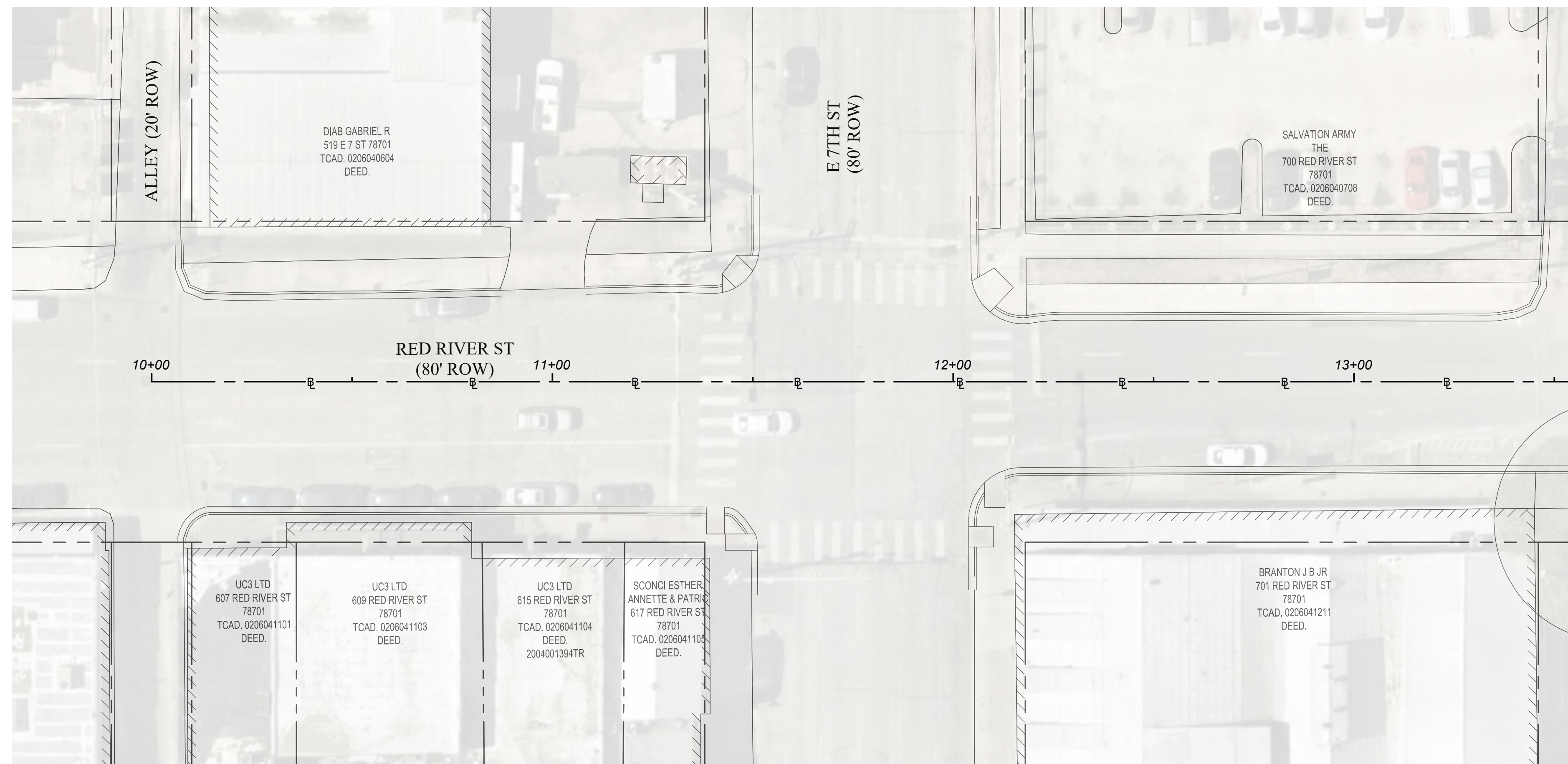
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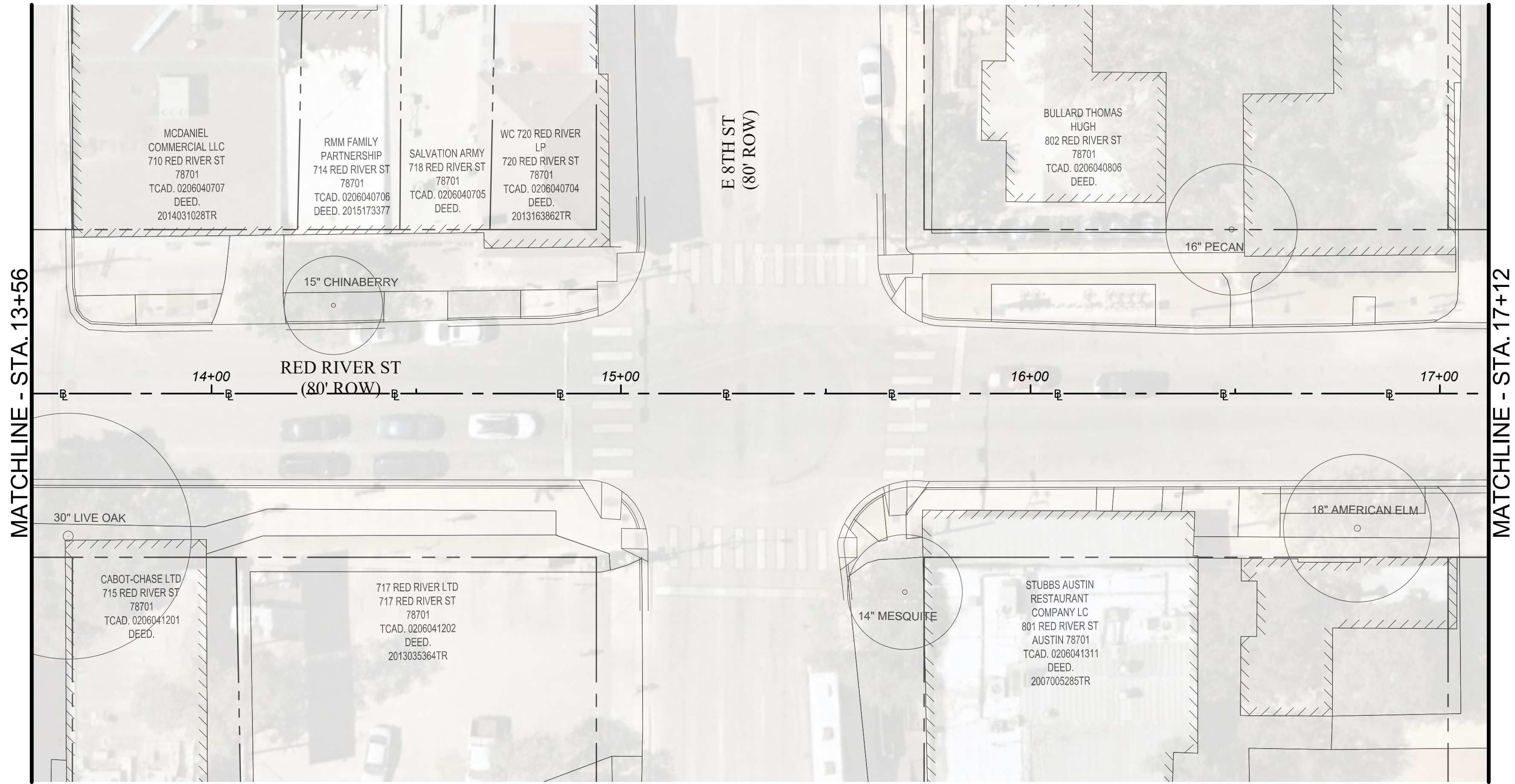


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CITY OF AUSTIN, TEXAS
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES DIVISION

RED RIVER
ENHANCEMENT

EXISTING SITE PLAN
(SHEET 2 OF 5)

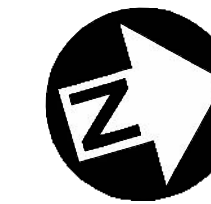
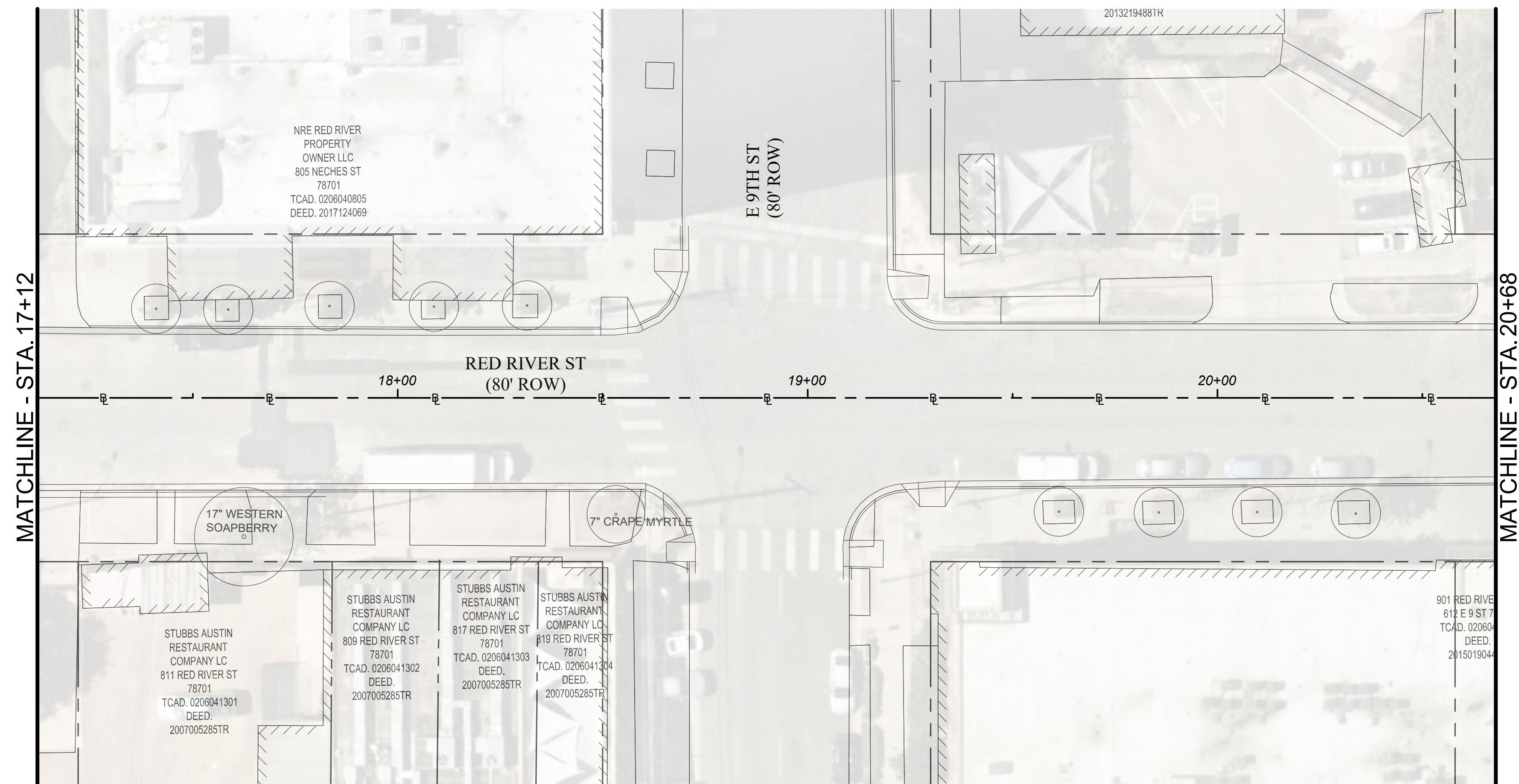


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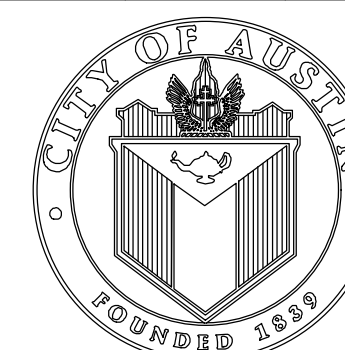


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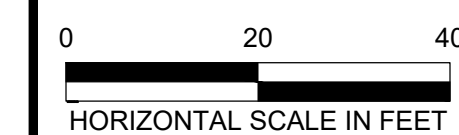
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ENGINEERING SERVICES DIVISION

RED RIVER
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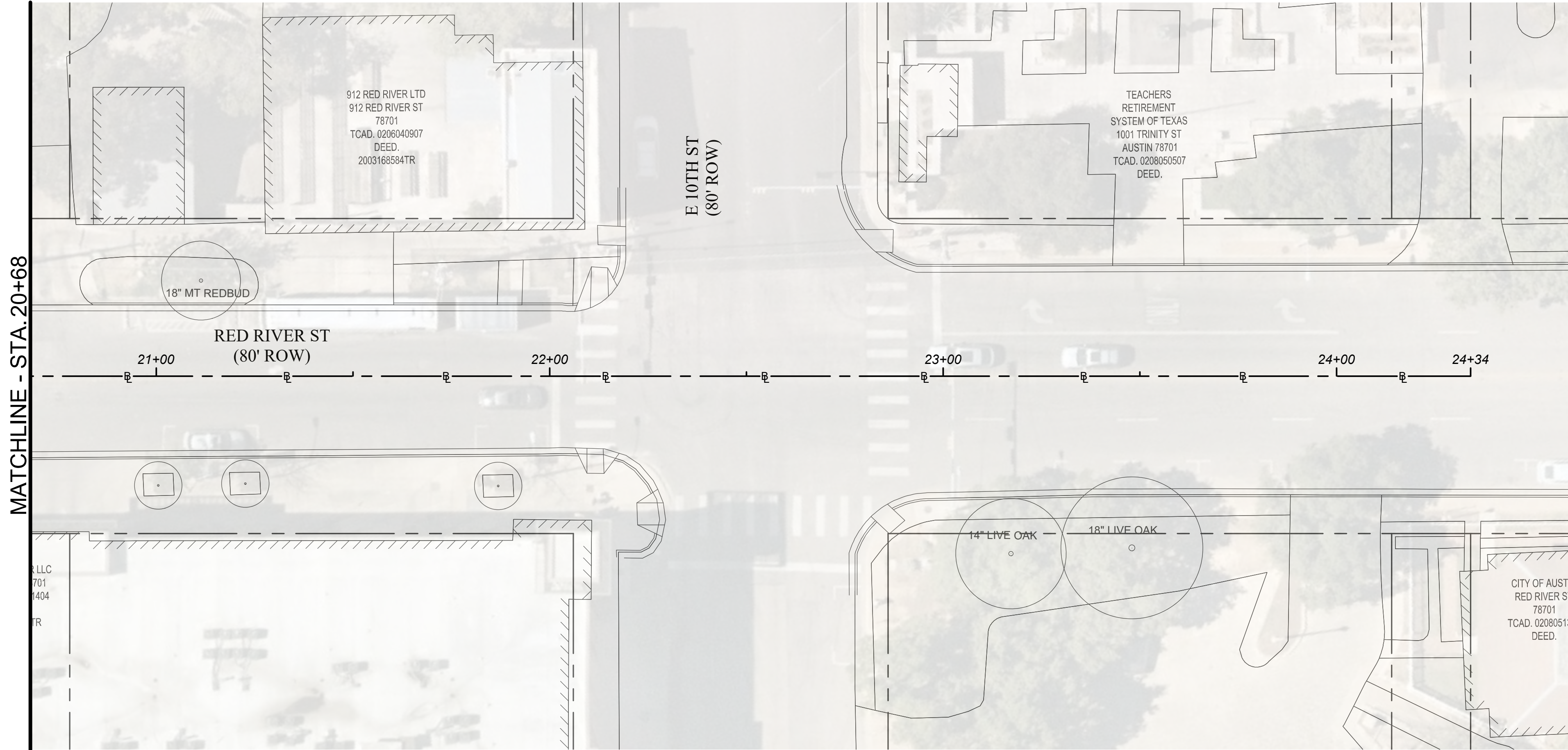
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RED RIVER
ENHANCEMENT

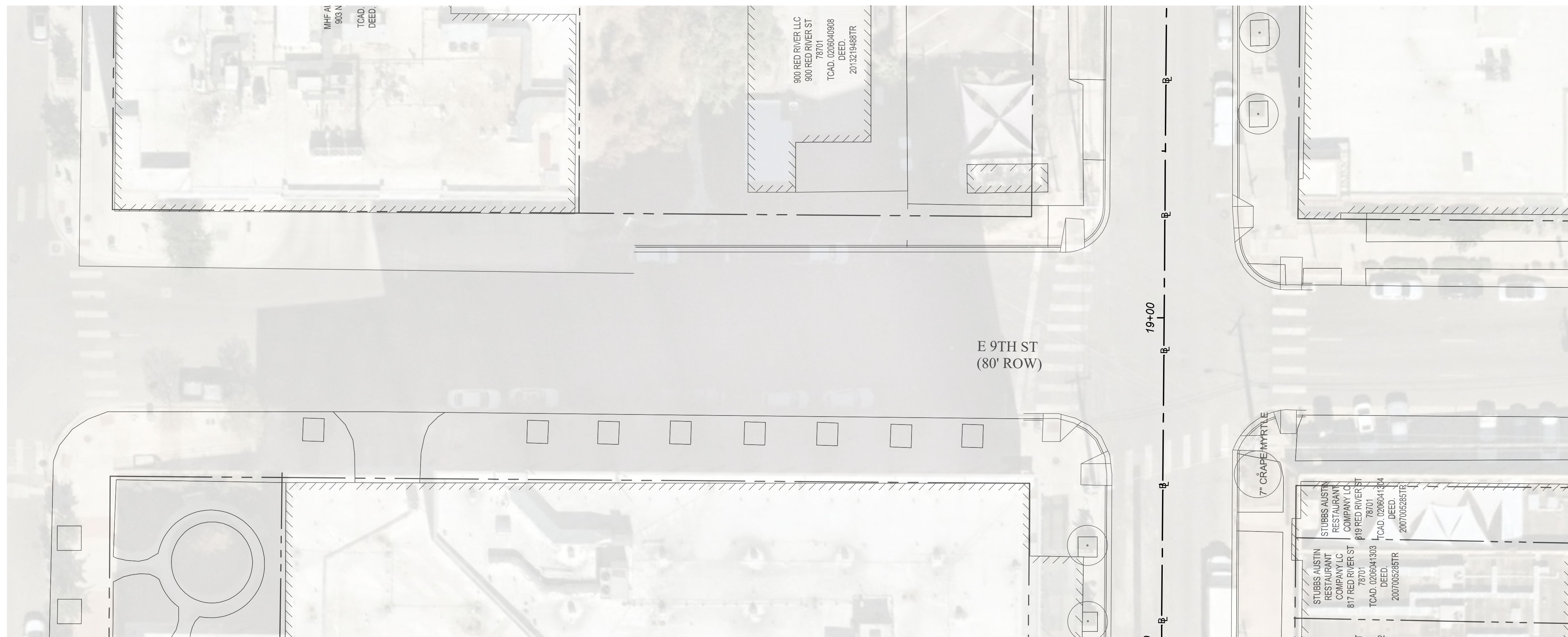
EXISTING SITE PLAN
(SHEET 4 OF 5)



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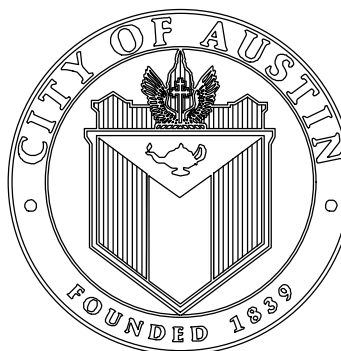
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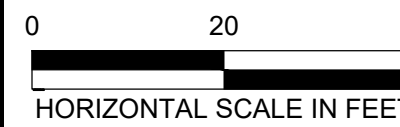
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PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES DIVISION

RED RIVER
ENHANCEMENT

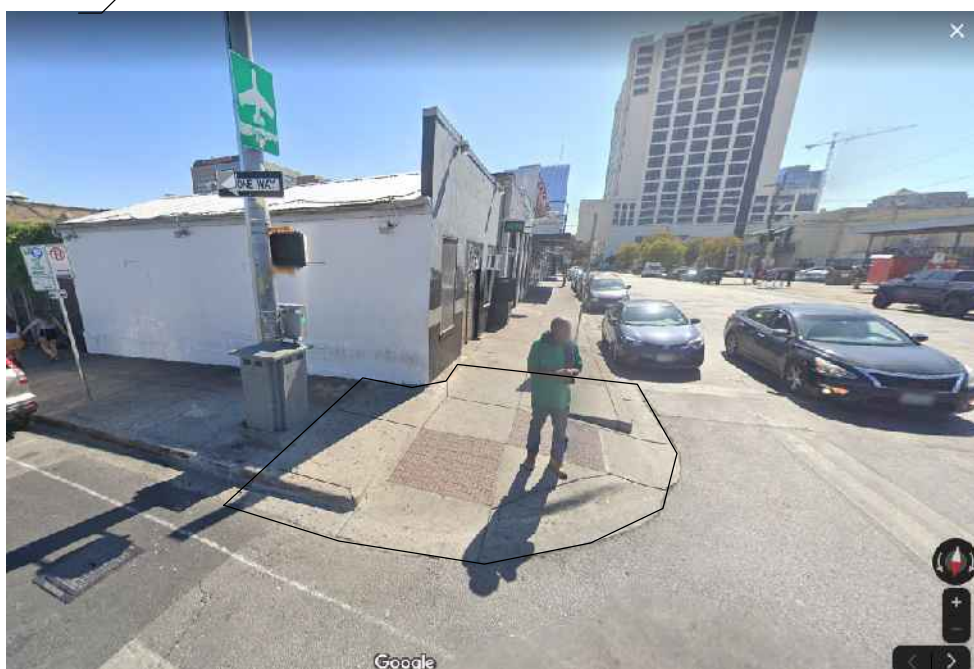
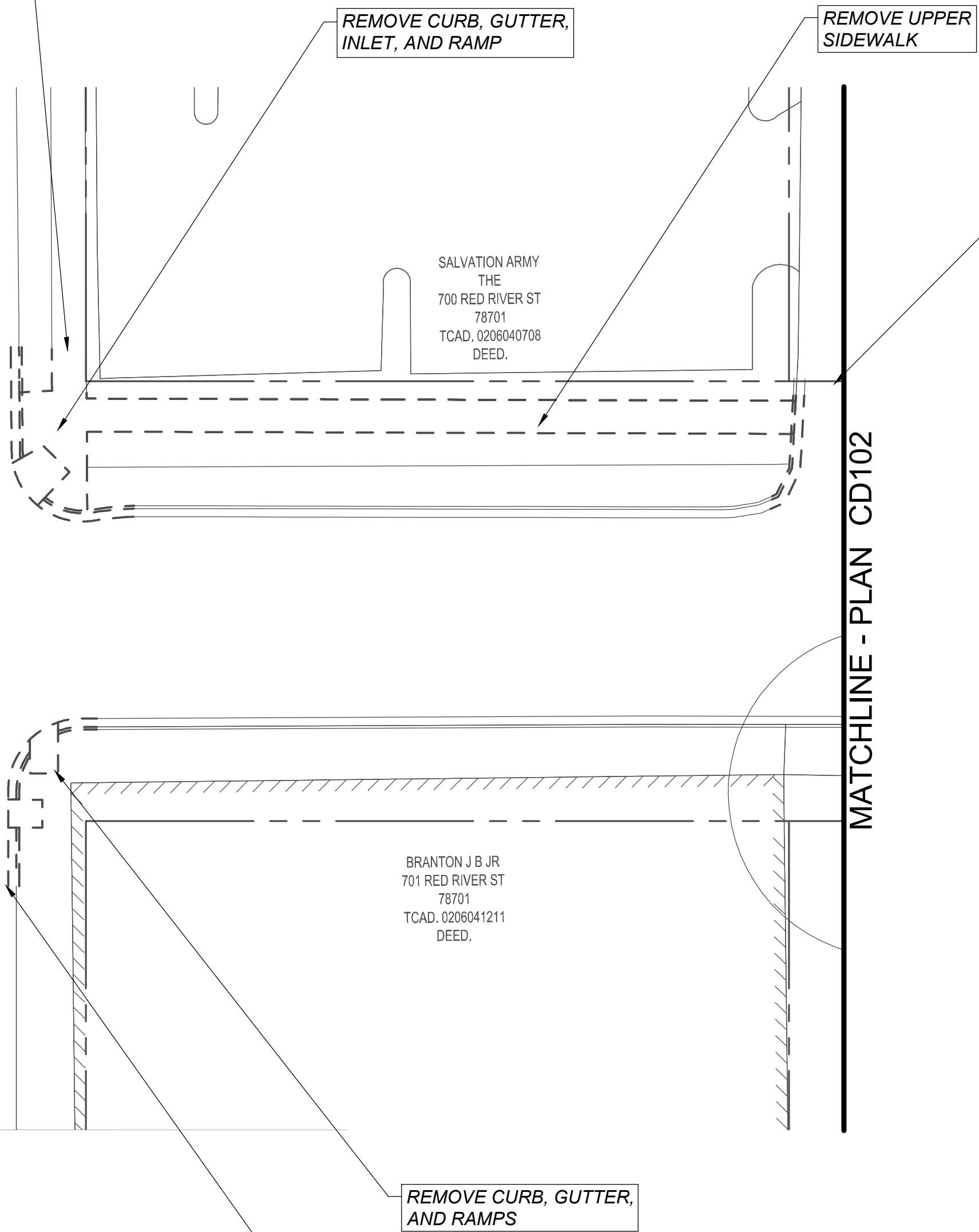
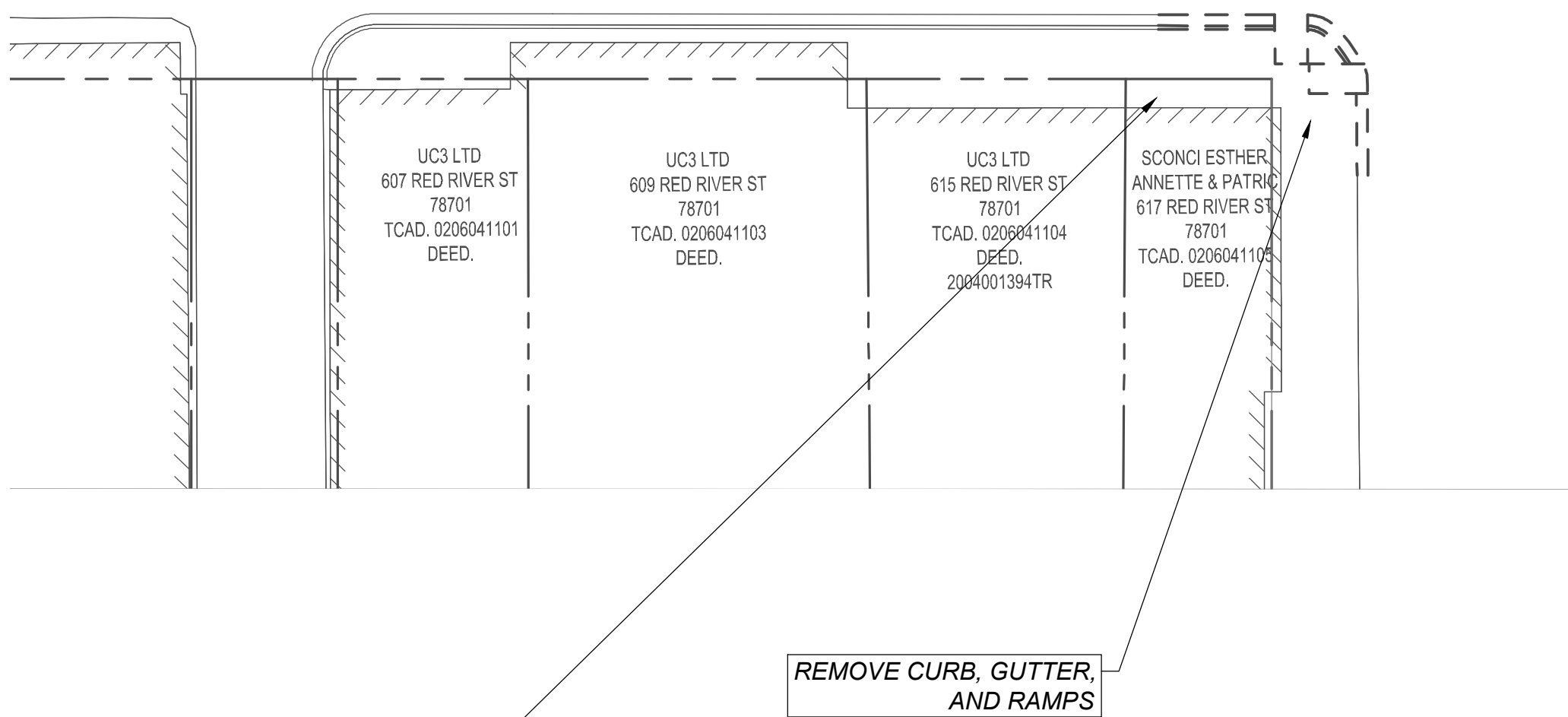
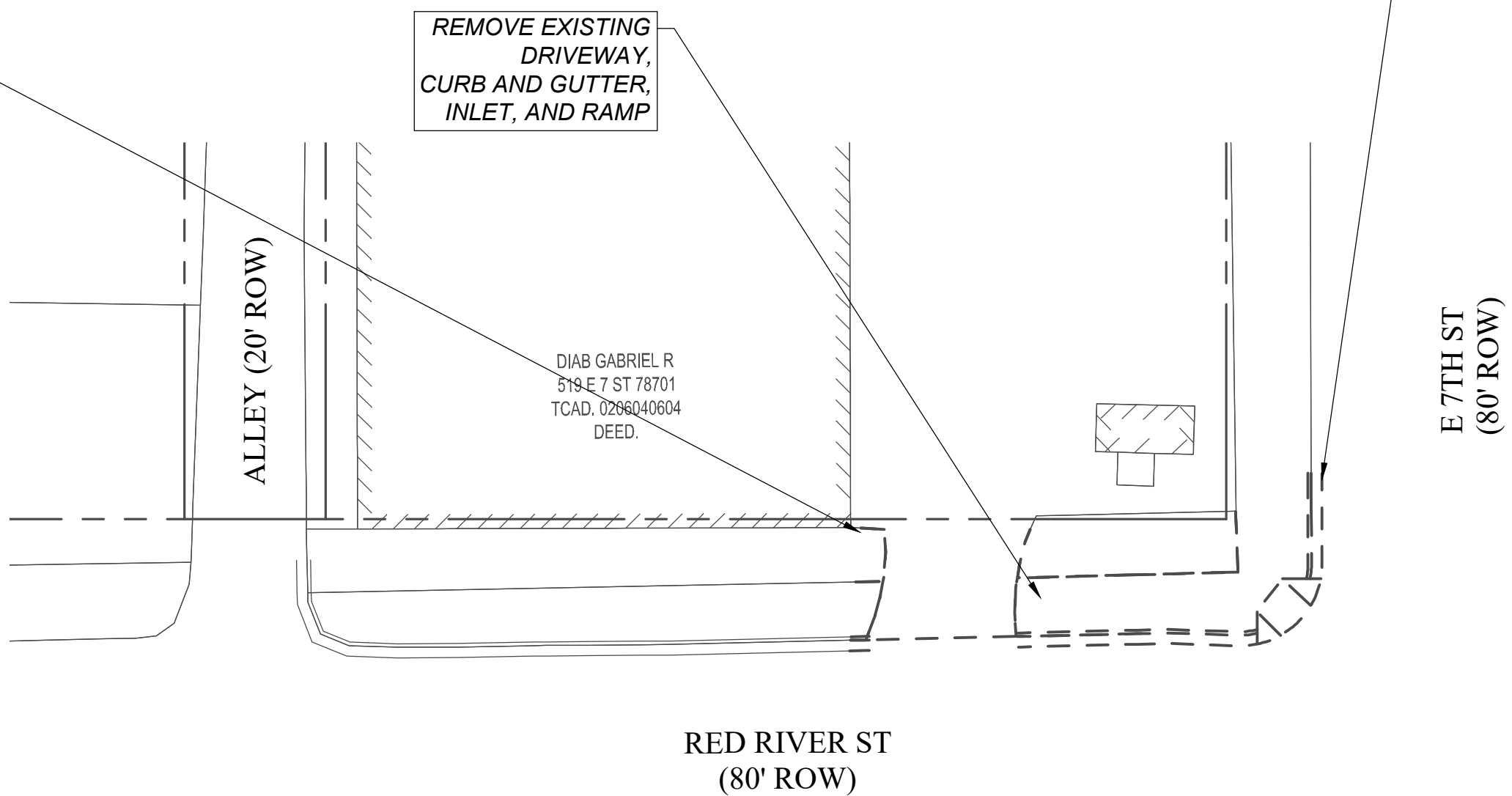
EXISTING SITE PLAN
(SHEET 5 OF 5)



NOTES	NAME	DATE
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RED RIVER
ENHANCEMENT

DEMOLITION PLAN
(SHEET 1 OF 6)

NOTES	NAME	DATE
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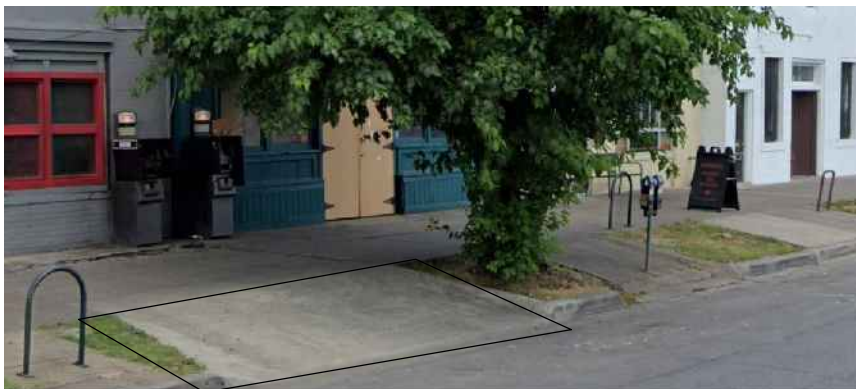
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HORIZONTAL SCALE IN FEET

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CD101	13 OF 46
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SWEAT, KEVIN



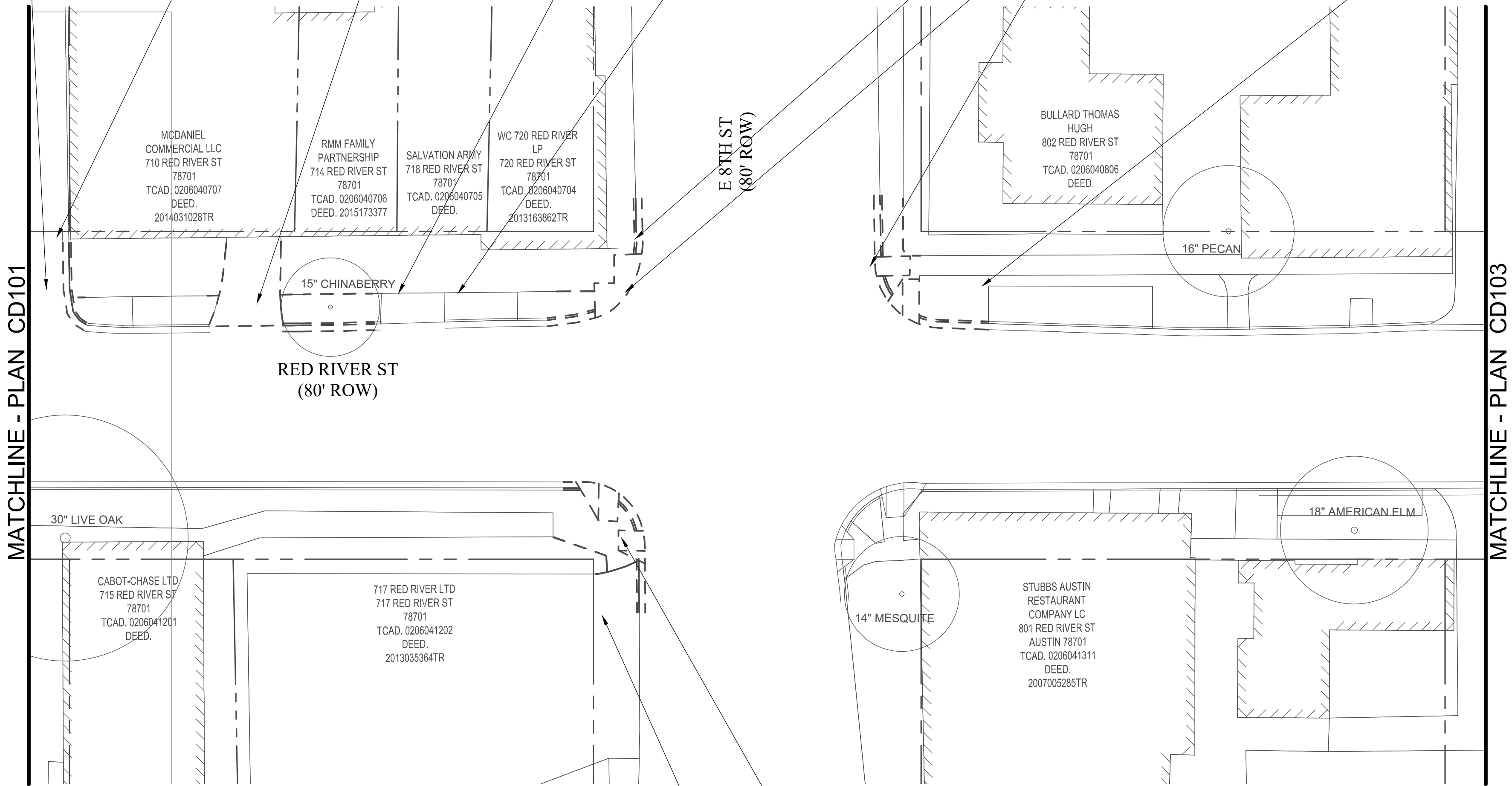
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PAVEMENT AND
RAMP

REMOVE DRIVEWAY
AND CURB AND GUTTER

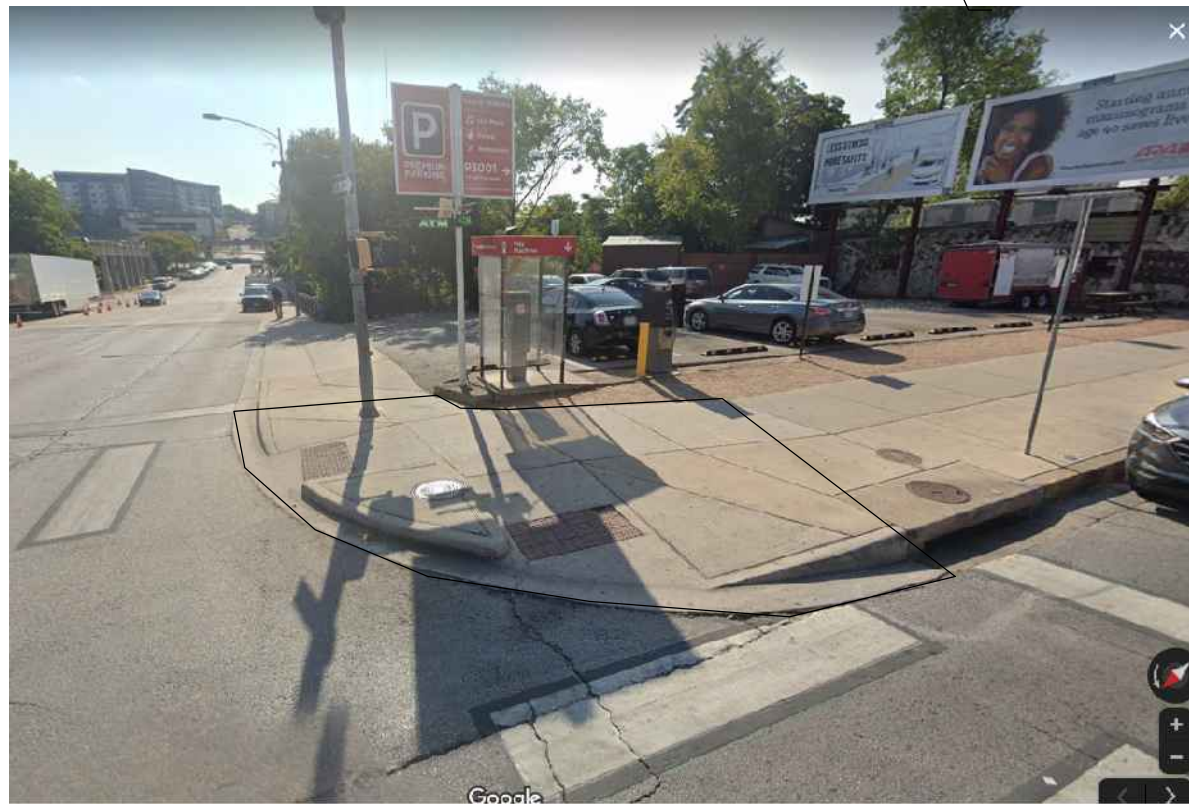
REMOVE CURB, GUTTER
AND RAMPS

MATCHLINE - PLAN CD101

MATCHLINE - PLAN CD103



REMOVE CURB, GUTTER
AND RAMPS



KS

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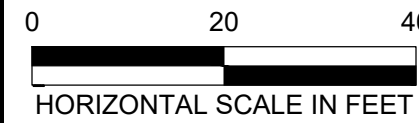
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RED RIVER
ENHANCEMENT

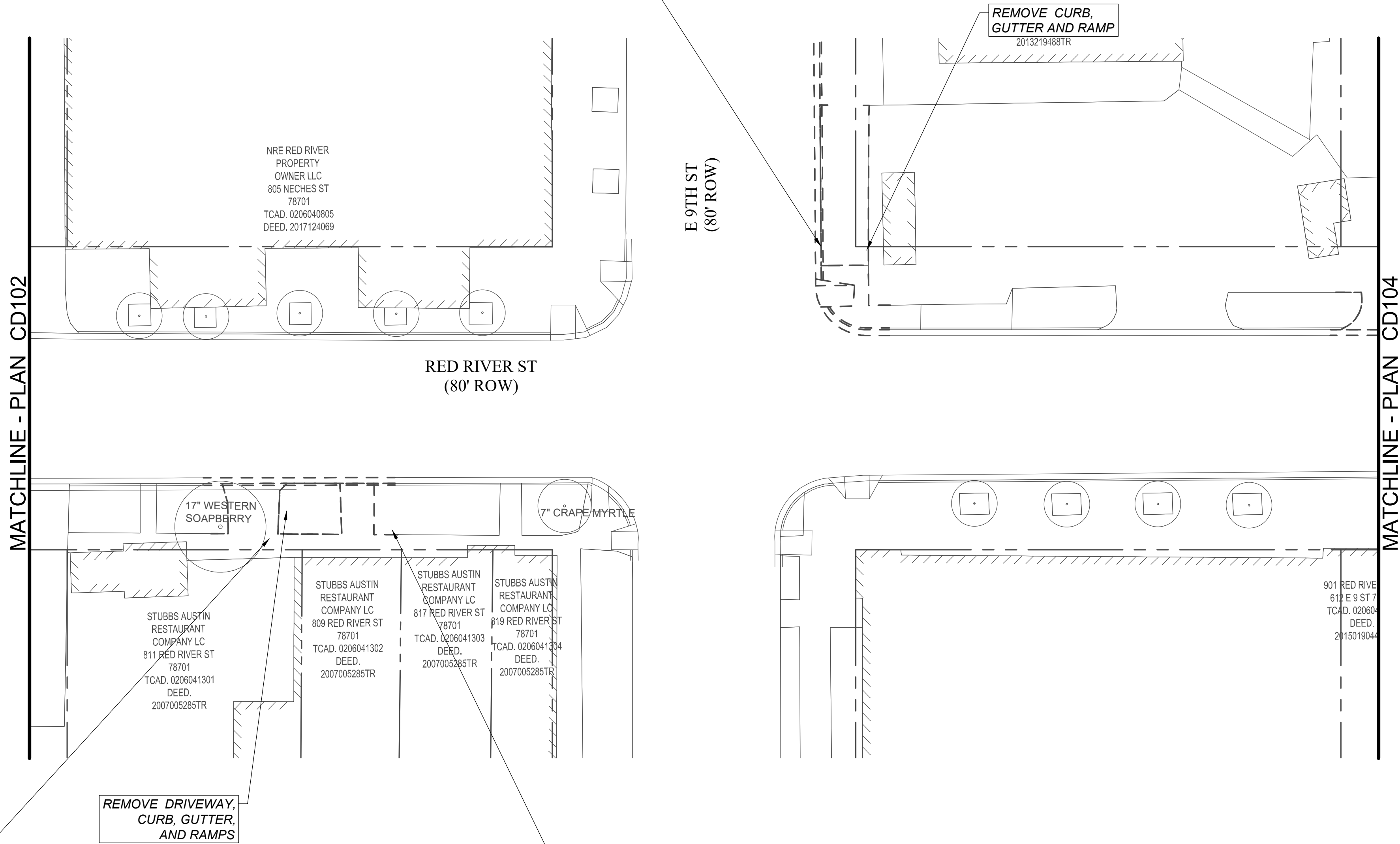
DEMOLITION PLAN
(SHEET 2 OF 6)



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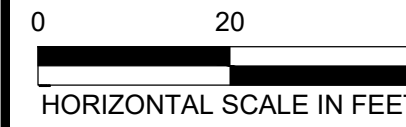
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PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES DIVISION

RED RIVER
ENHANCEMENT

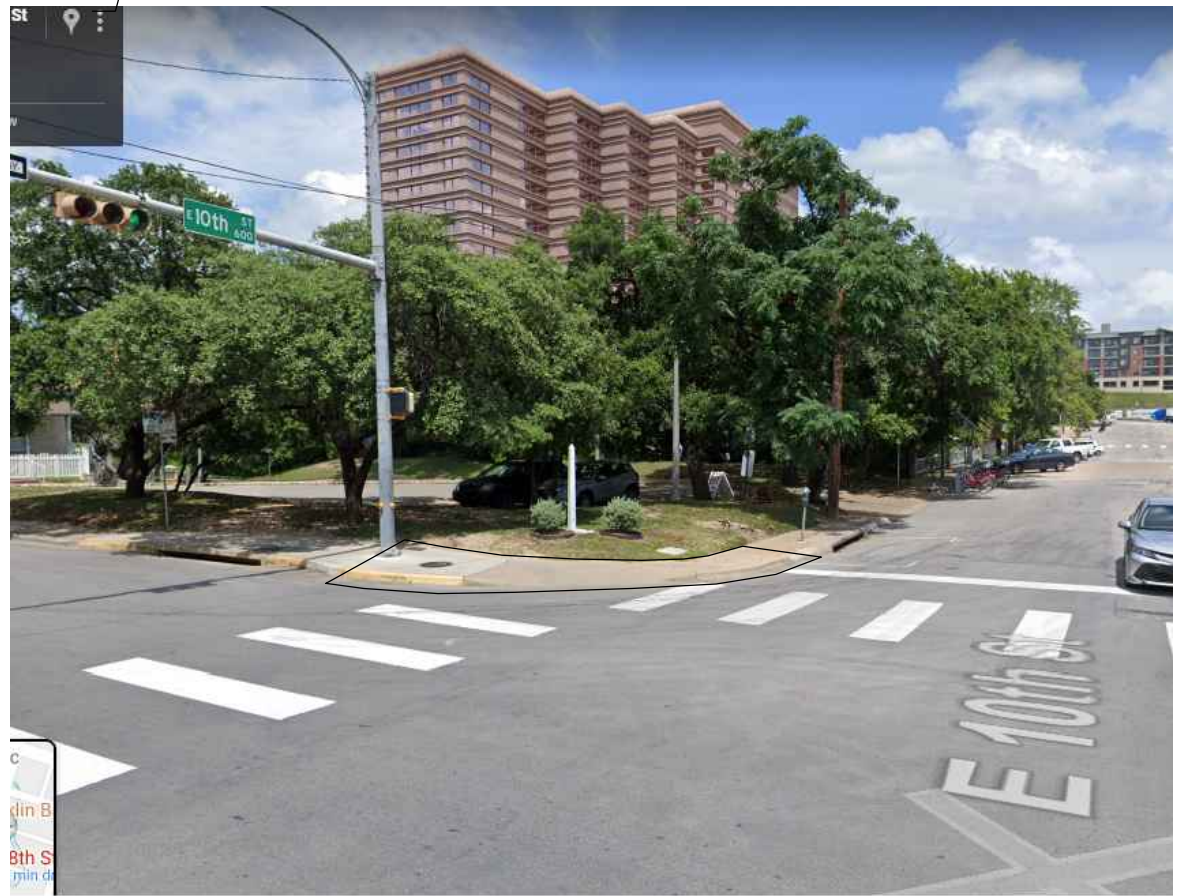
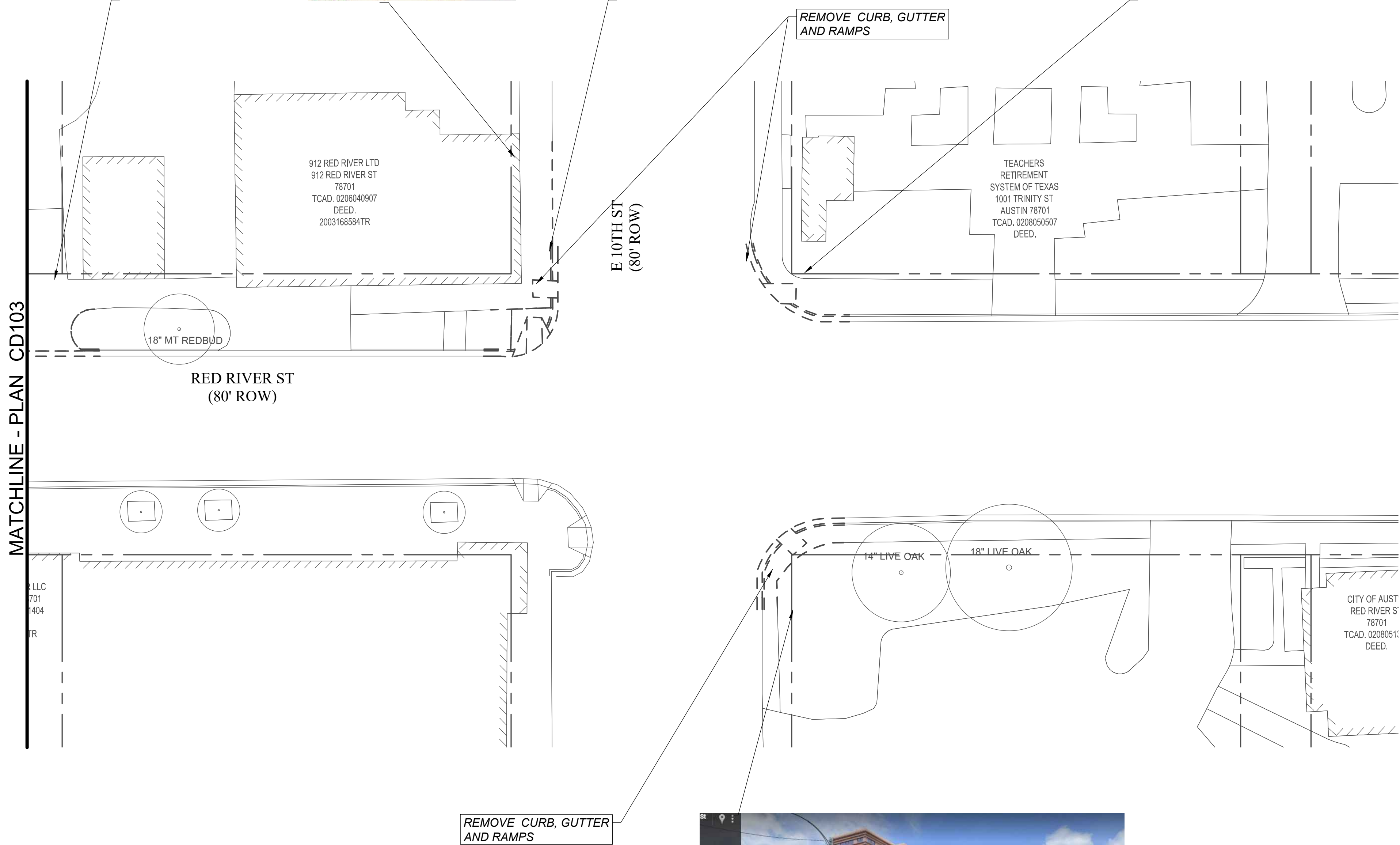
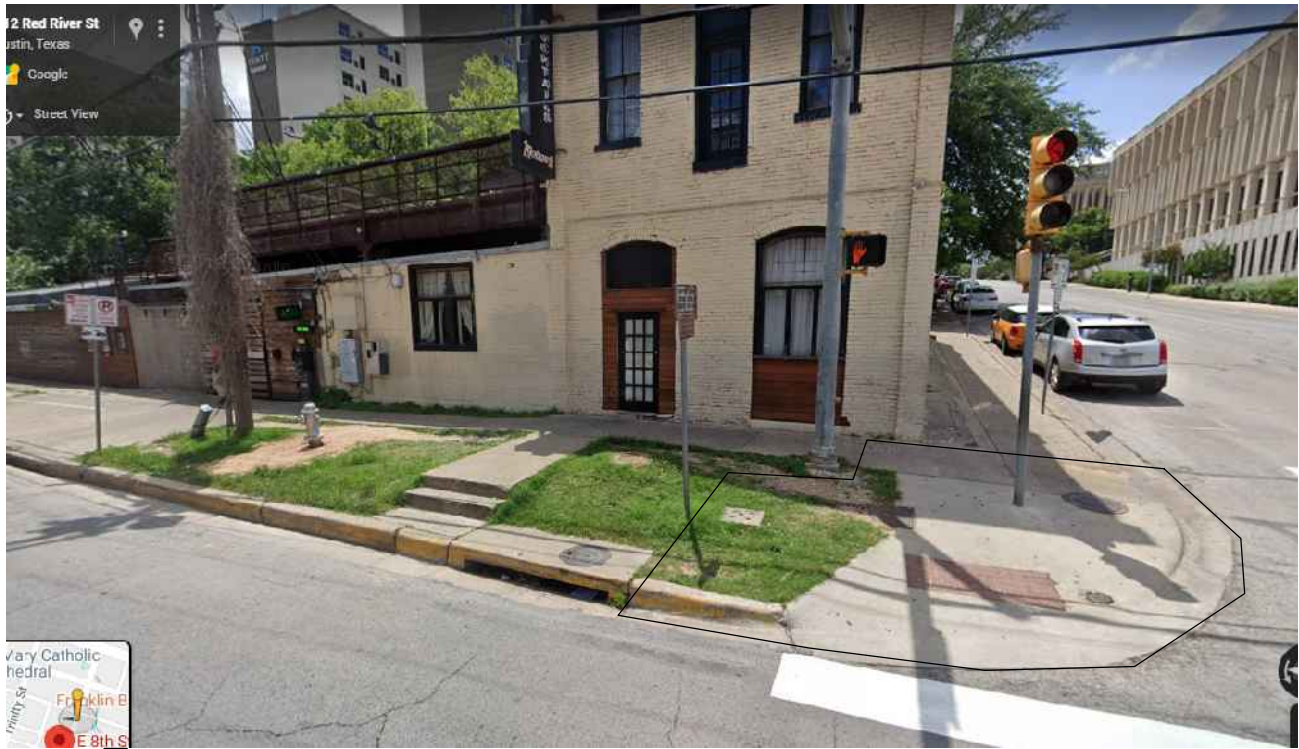
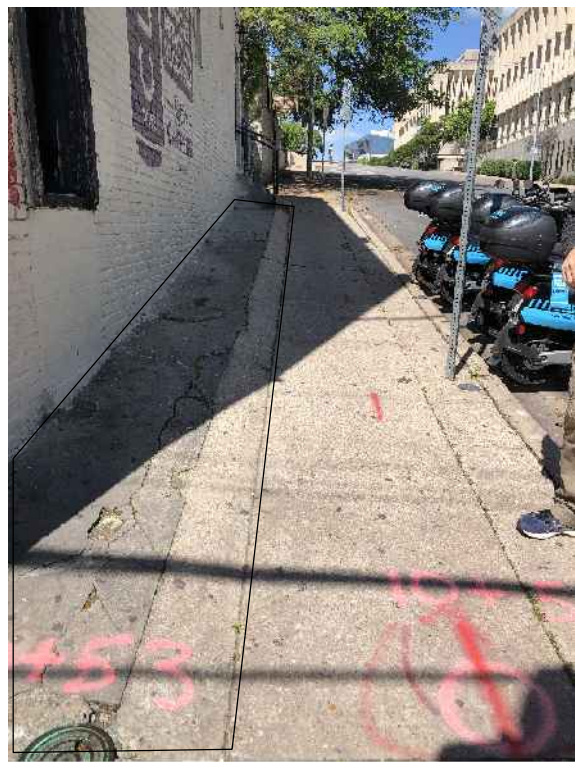
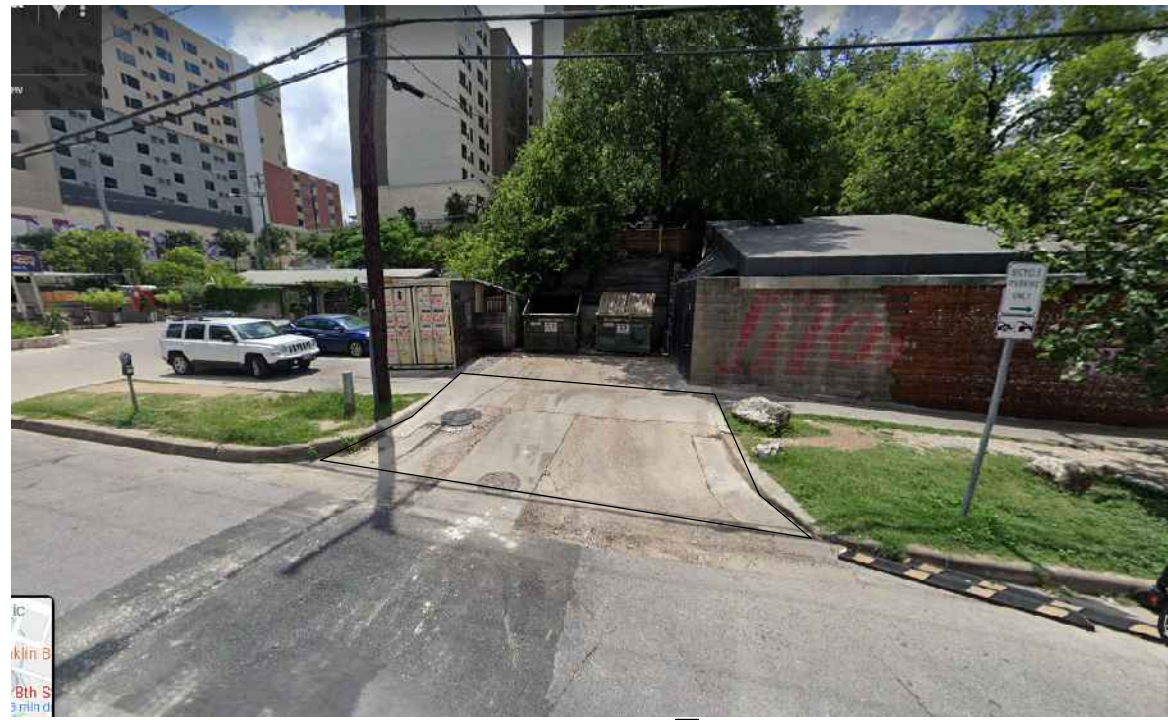
DEMOLITION PLAN
(SHEET 3 OF 6)



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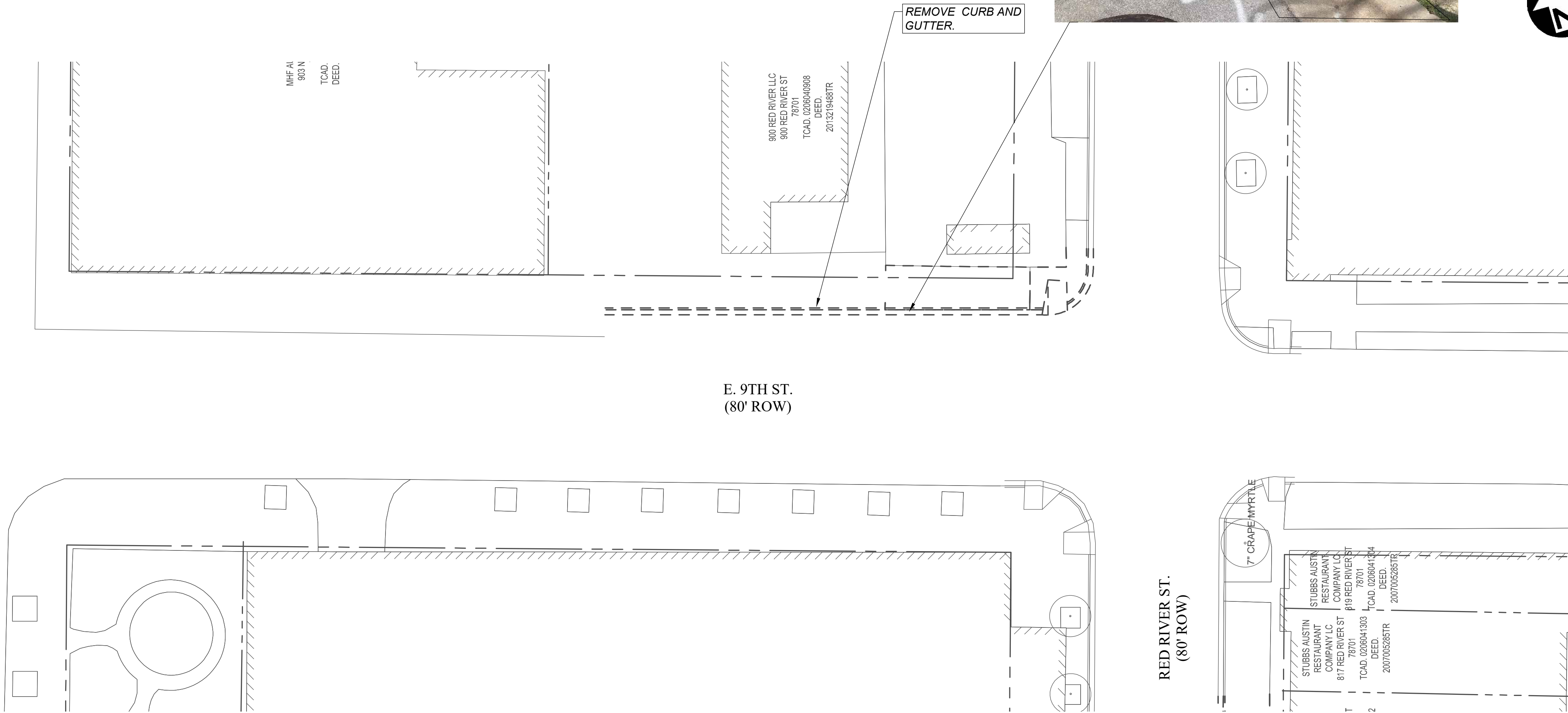
CITY OF AUSTIN, TEXAS
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES DIVISION
RED RIVER
ENHANCEMENT
DEMOLITION PLAN
(SHEET 4 OF 6)



NOTES	NAME	DATE
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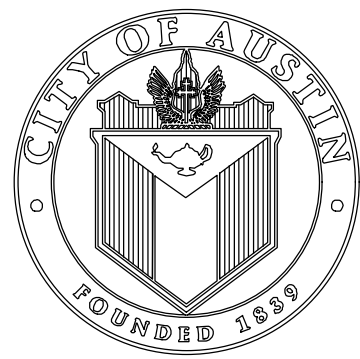
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CITY OF AUSTIN, TEXAS
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES DIVISION

RED RIVER
ENHANCEMENT

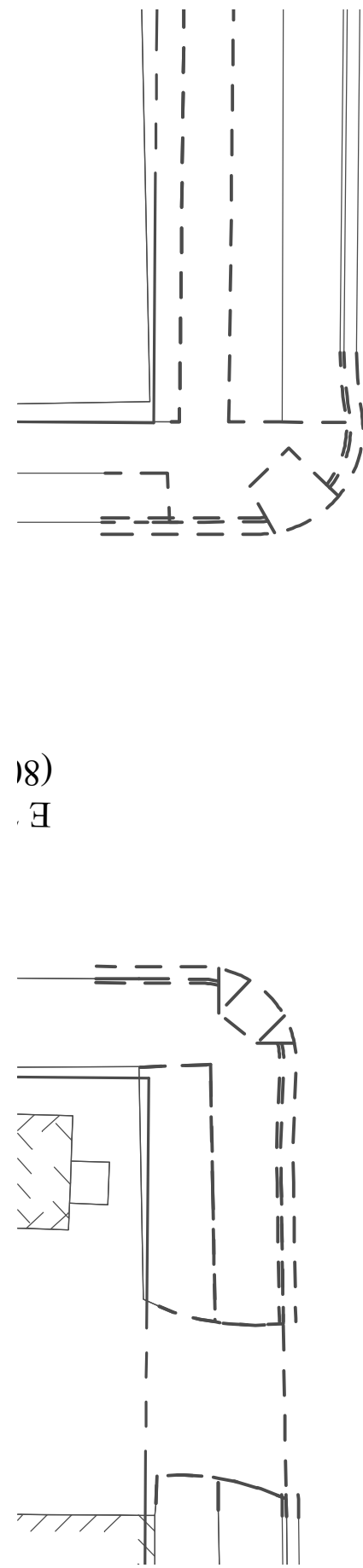
DEMOLITION PLAN
(SHEET 5 OF 6)



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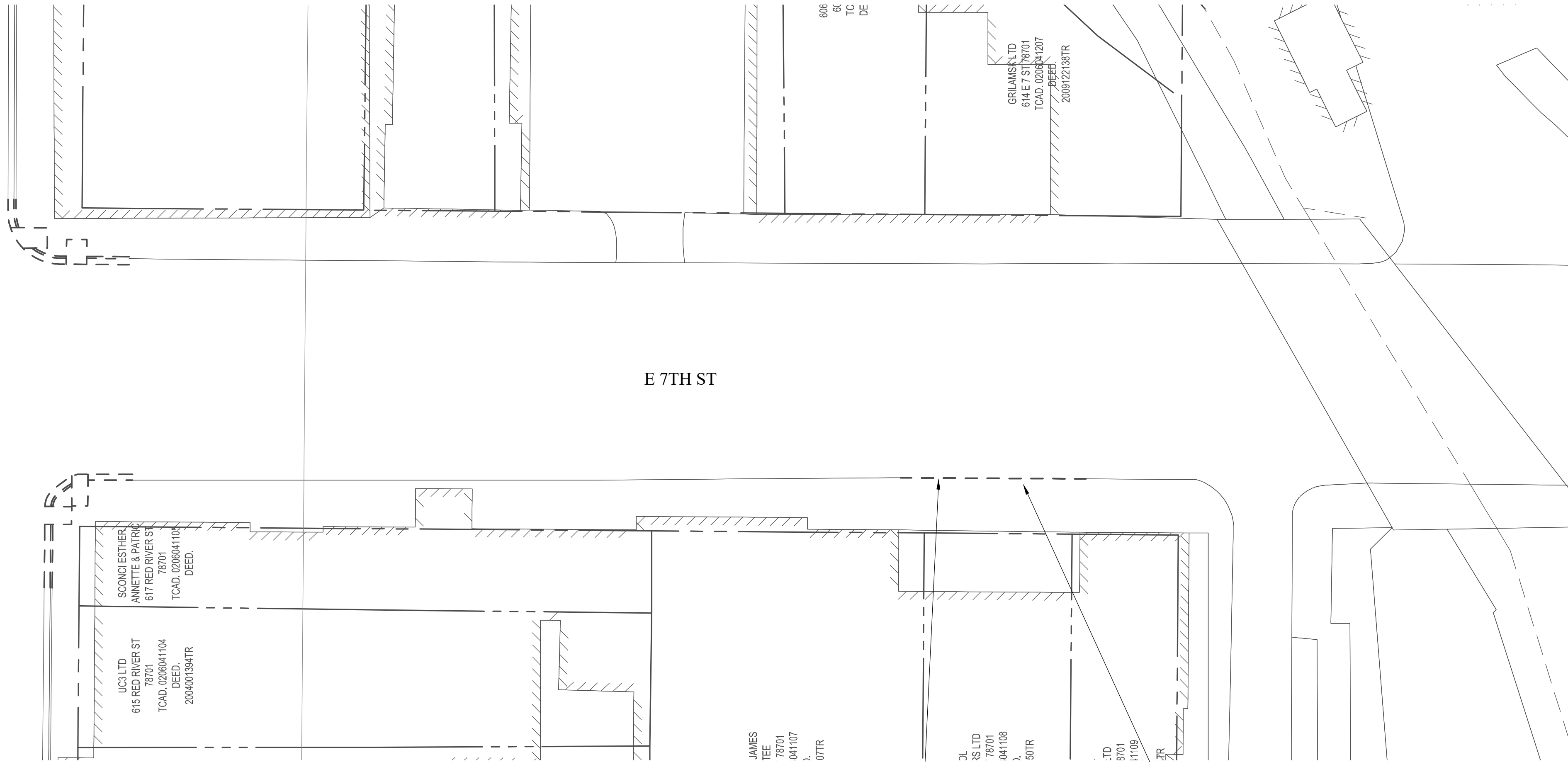


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E 7TH ST

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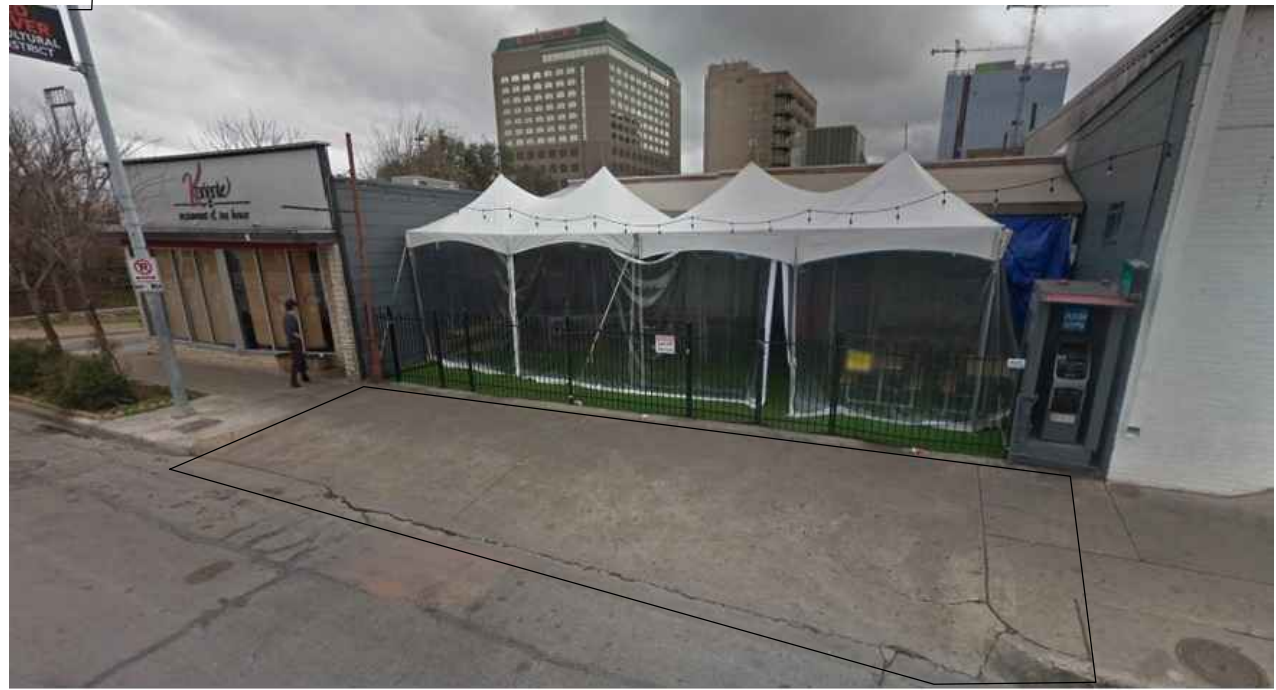
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GRUANSKY LTD
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REMOVE DRIVEWAY,
CURB, AND GUTTER

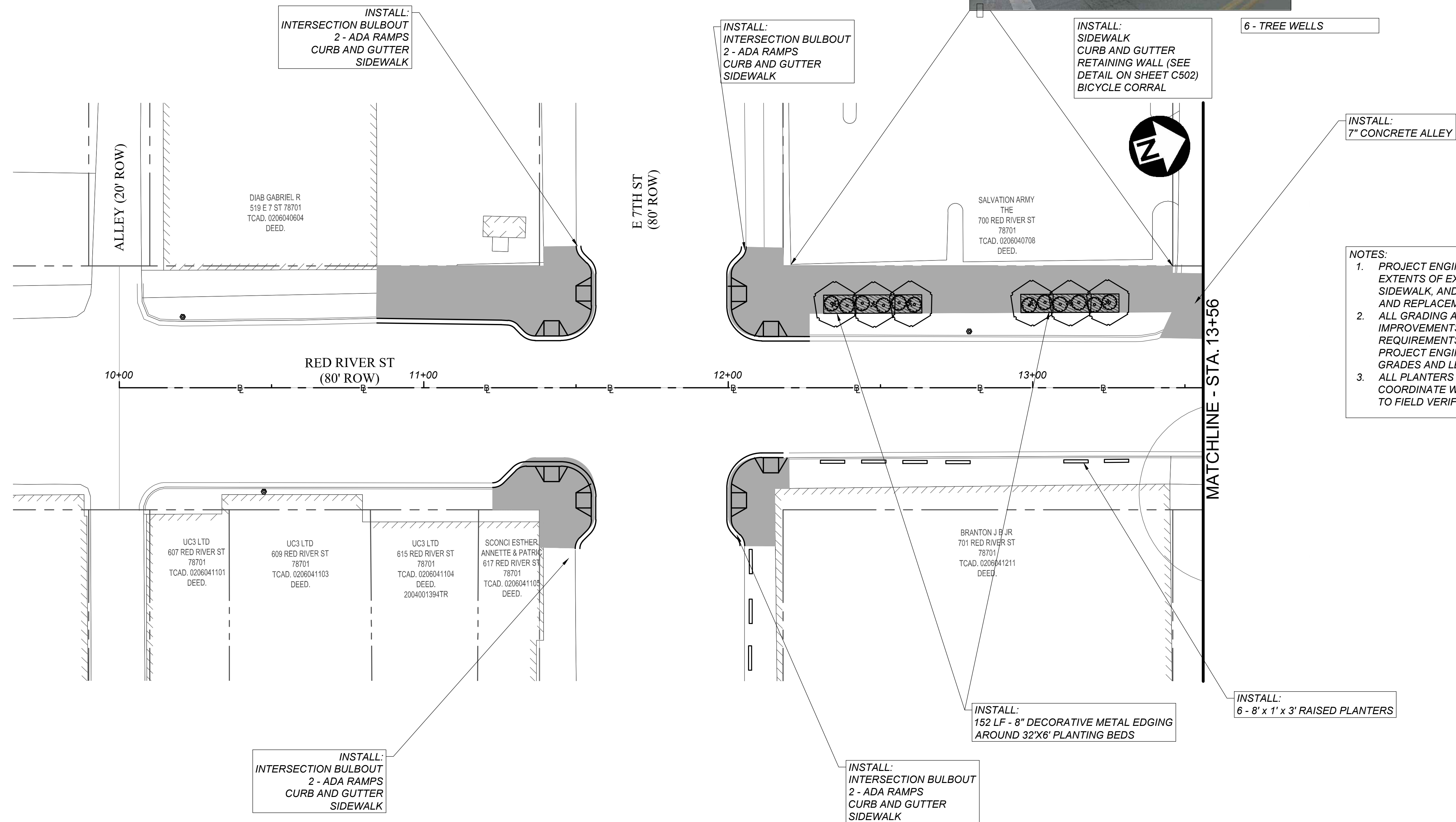


CITY OF AUSTIN, TEXAS PUBLIC WORKS DEPARTMENT ENGINEERING SERVICES DIVISION			REVISION DESCRIPTION		
RED RIVER ENHANCEMENT			REV. NO.	BY	DATE
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12/22/2020 11:22 AM

SWEAT, KEVIN



6 - TREE WELLS

NOTES:

1. PROJECT ENGINEER TO FIELD VERIFY EXTENTS OF EXISTING CURB AND GUTTER, SIDEWALK, AND DRIVEWAYS FOR REMOVAL AND REPLACEMENT.
2. ALL GRADING AND PEDESTRIAN IMPROVEMENTS SHALL COMPLY WITH ADA REQUIREMENTS. COORDINATE WITH PROJECT ENGINEER TO FIELD VERIFY LINES, GRADES AND LEVELS.
3. ALL PLANTERS TO BE FIELD PLACED. COORDINATE WITH LANDSCAPE DESIGNER TO FIELD VERIFY LOCATIONS.

INSTALL:
152 LF - 8" DECORATIVE METAL EDGING
AROUND 32'X6' PLANTING BEDS

INSTALL:
INTERSECTION BULBOUT
2 - ADA RAMPS
CURB AND GUTTER
SIDEWALK

[illegible]

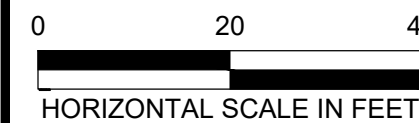
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PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES DIVISION

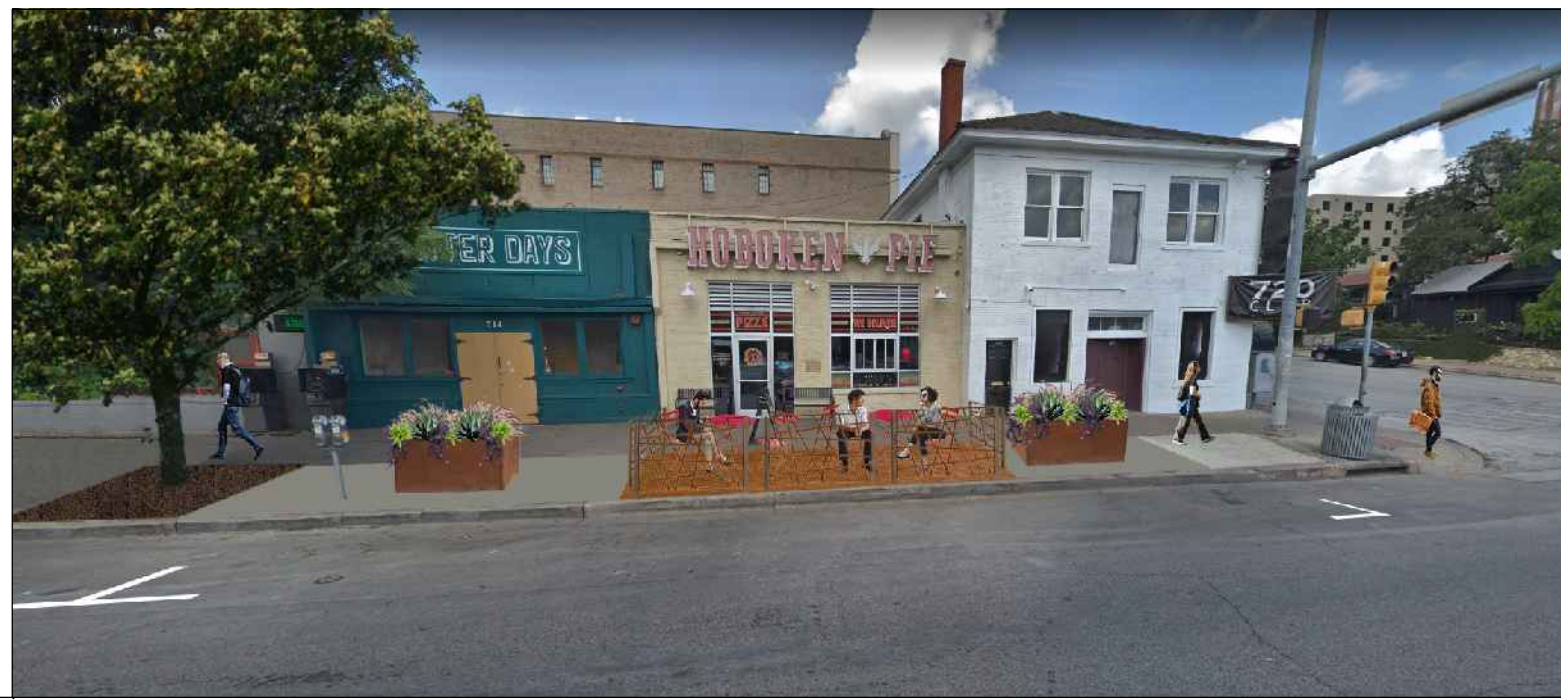


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INSTALL:
SIDEWALK
CURB AND GUTTER
6 - 8' x 3' x 3' RAISED PLANTERS

INSTALL:
INTERSECTION BULBOUT
2 - ADA RAMPS
CURB AND GUTTER
SIDEWALK

INSTALL:
INTERSECTION BULBOUT
2 - ADA RAMPS
CURB AND GUTTER
SIDEWALK

INSTALL:
3 - 8' x 3' x 3' RAISED PLANTERS



STATE OF TEXAS
★
KEVIN SWEAT
92023
LICENSED
PROFESSIONAL ENGINEER
2020-12-31

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LIC. # 92023

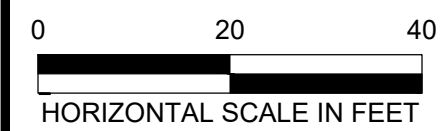
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PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES DIVISION

RED RIVER
ENHANCEMENT
PROPOSED SITE PLAN
(SHEET 2 OF 6)



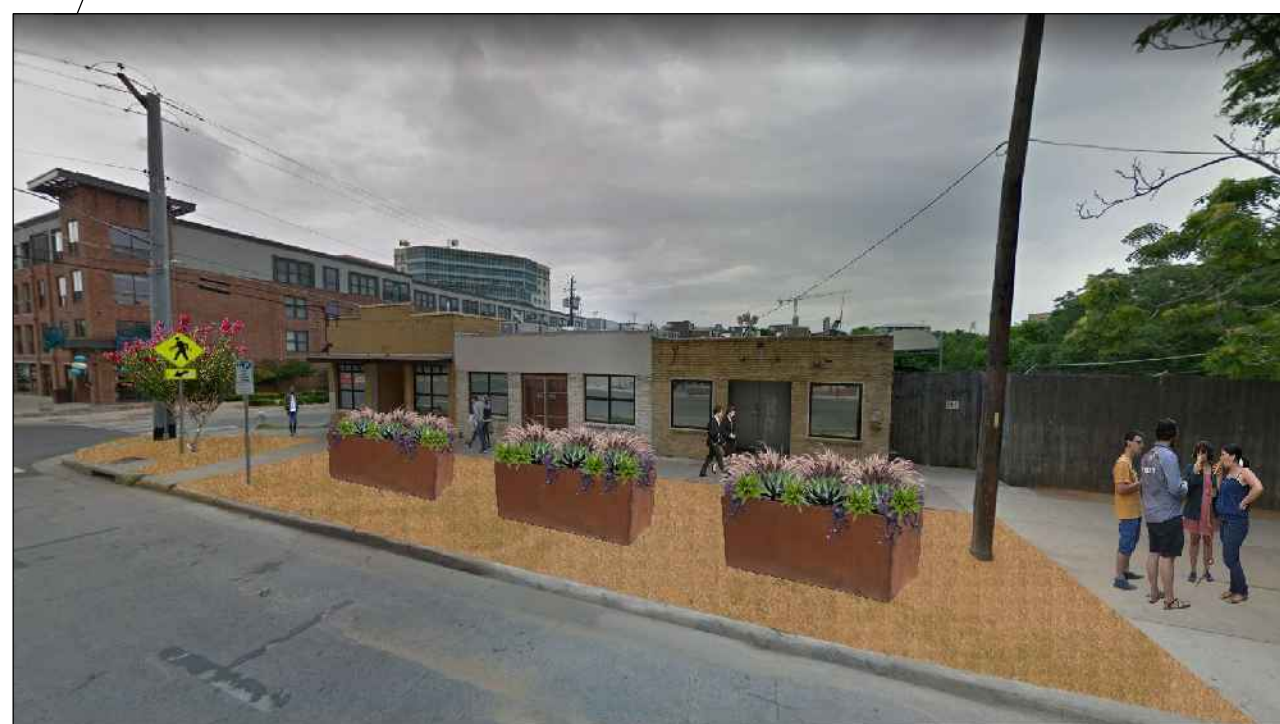
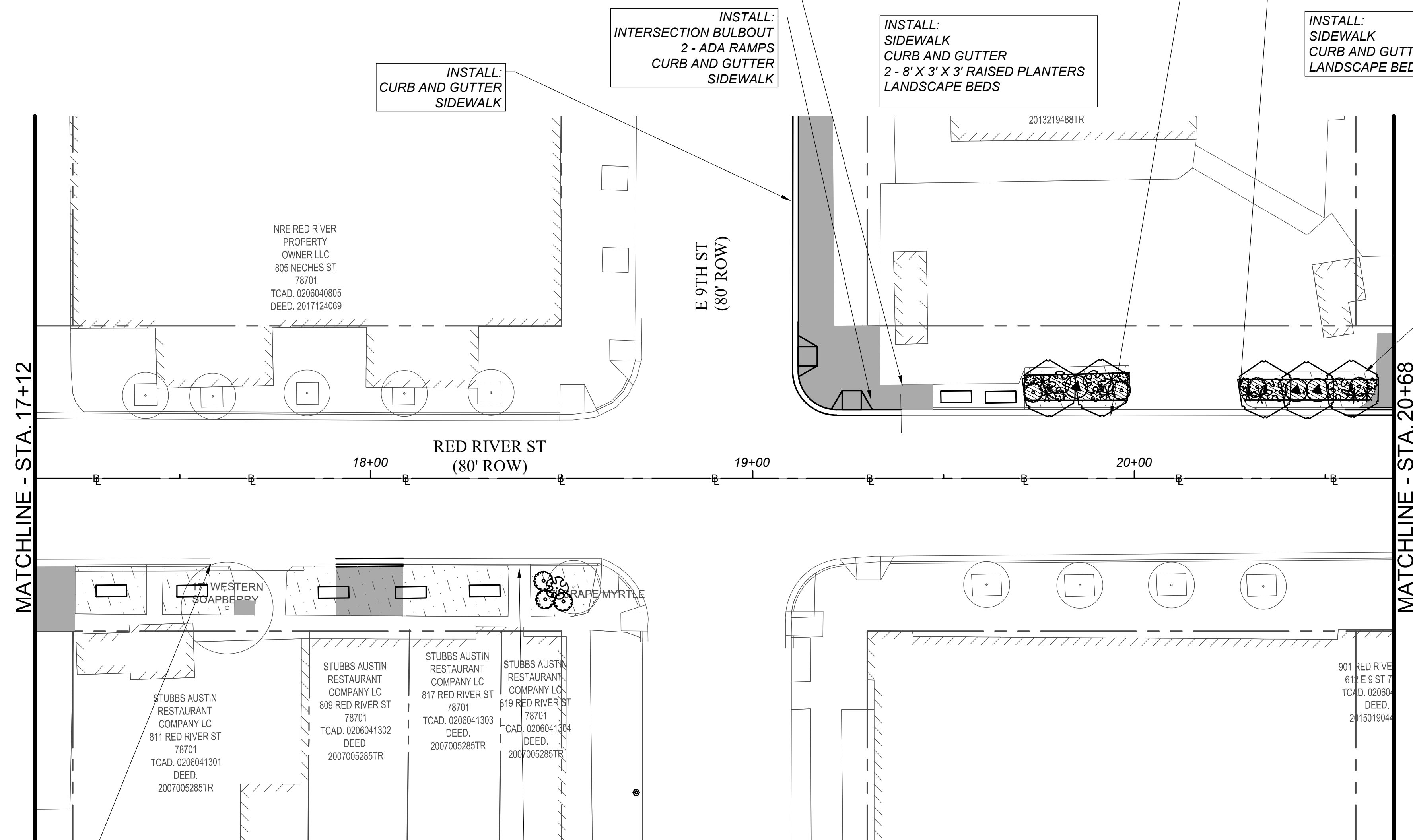
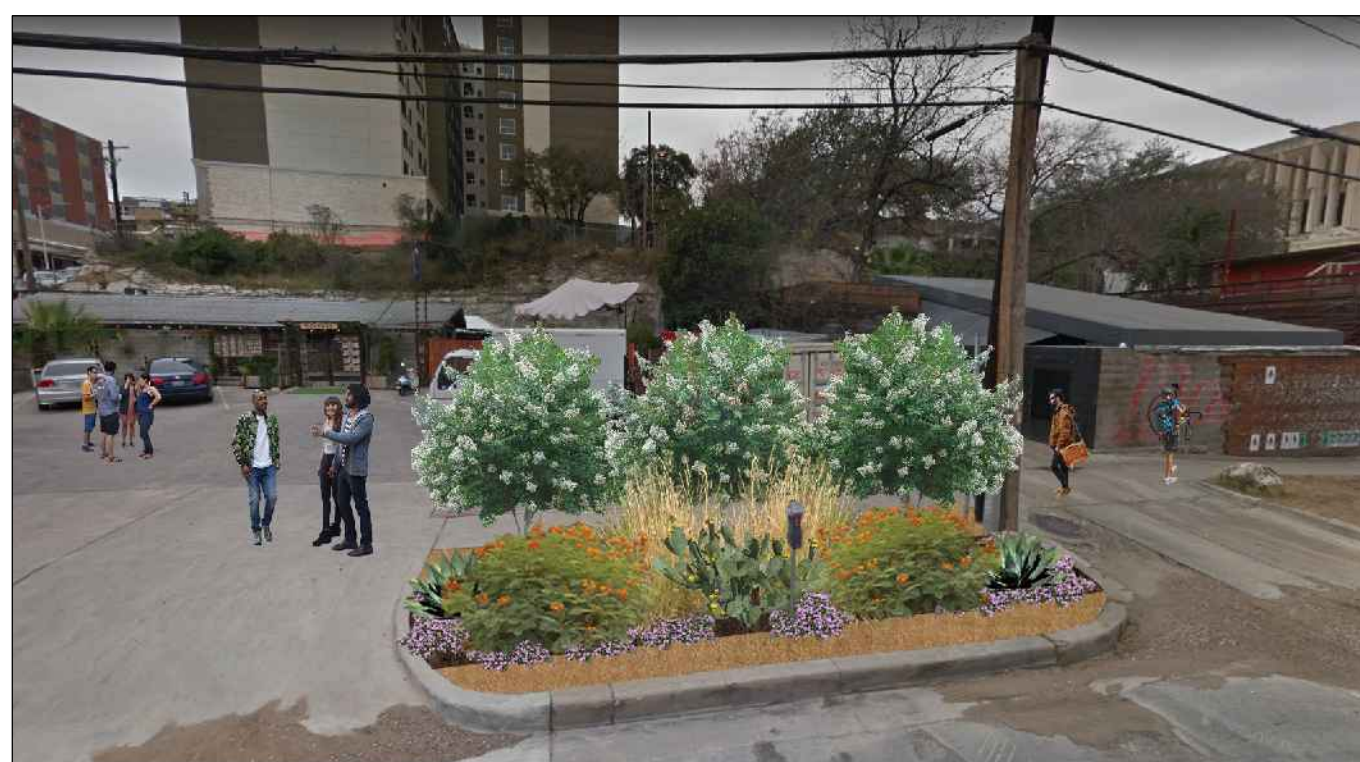
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- NOTES:**
1. PROJECT ENGINEER TO FIELD VERIFY EXTENTS OF EXISTING CURB AND GUTTER, SIDEWALK, AND DRIVEWAYS FOR REMOVAL AND REPLACEMENT.
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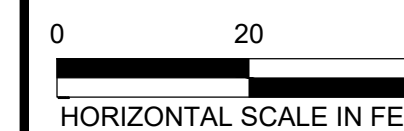
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RED RIVER
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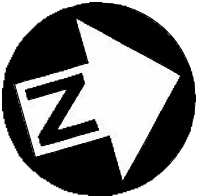
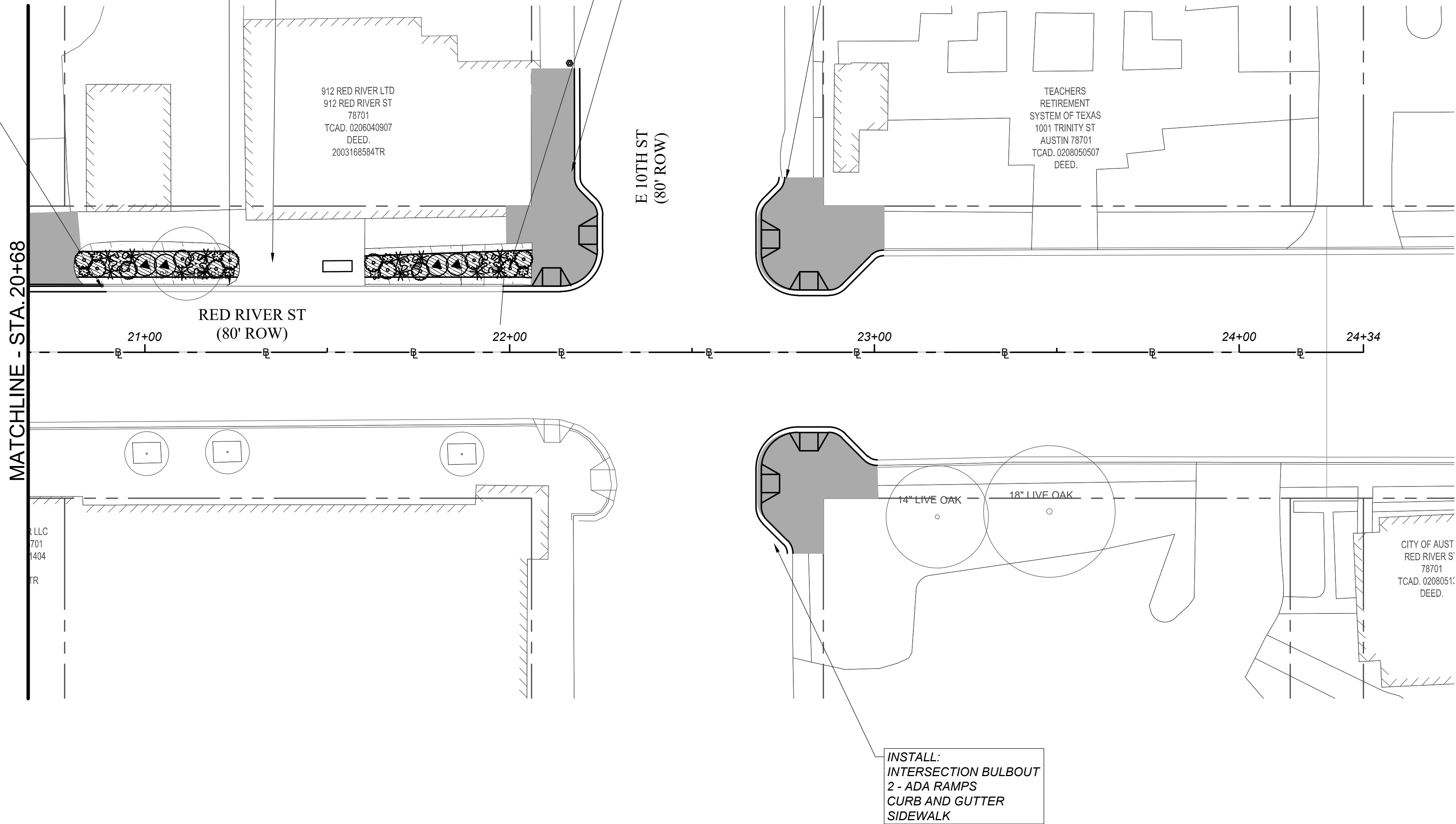


INSTALL:
SIDEWALK
CURB AND GUTTER
LANDSCAPE BEDS

INSTALL:
SIDEWALK
CURB AND GUTTER
1 - 8' X 3' X 3' RAISED PLANTERS
LANDSCAPE BEDS

INSTALL:
INTERSECTION BULBOUT
2 - ADA RAMPS
CURB AND GUTTER
SIDEWALK

INSTALL:
INTERSECTION BULBOUT
2 - ADA RAMPS
CURB AND GUTTER
SIDEWALK



- NOTES:
- PROJECT ENGINEER TO FIELD VERIFY EXTENTS OF EXISTING CURB AND GUTTER, SIDEWALK, AND DRIVEWAYS FOR REMOVAL AND REPLACEMENT.
 - ALL GRADING AND PEDESTRIAN IMPROVEMENTS SHALL COMPLY WITH ADA REQUIREMENTS. COORDINATE WITH PROJECT ENGINEER TO FIELD VERIFY LINES, GRADES AND LEVELS.
 - ALL PLANTERS TO BE FIELD PLACED. COORDINATE WITH LANDSCAPE DESIGNER TO FIELD VERIFY LOCATIONS.



2020-12-22
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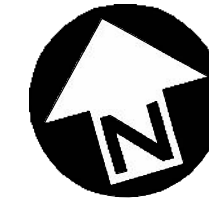
CITY OF AUSTIN, TEXAS
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES DIVISION
RED RIVER
ENHANCEMENT
PROPOSED SITE PLAN
(SHEET 4 OF 6)



NOTES	NAME	DATE
SURVEY BY		
DRAWN BY	DS	
DESIGNED BY	CN	
CHECKED BY	ESD	
REVIEWED BY	KS	



GP-2020-____.PWD



- NOTES:**
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LIC. # 92023

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FORMAL CITY APPROVAL.

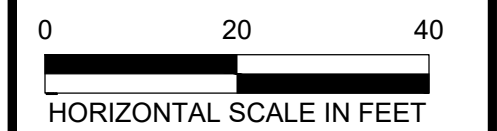
CITY OF AUSTIN, TEXAS
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES DIVISION

RED RIVER
ENHANCEMENT

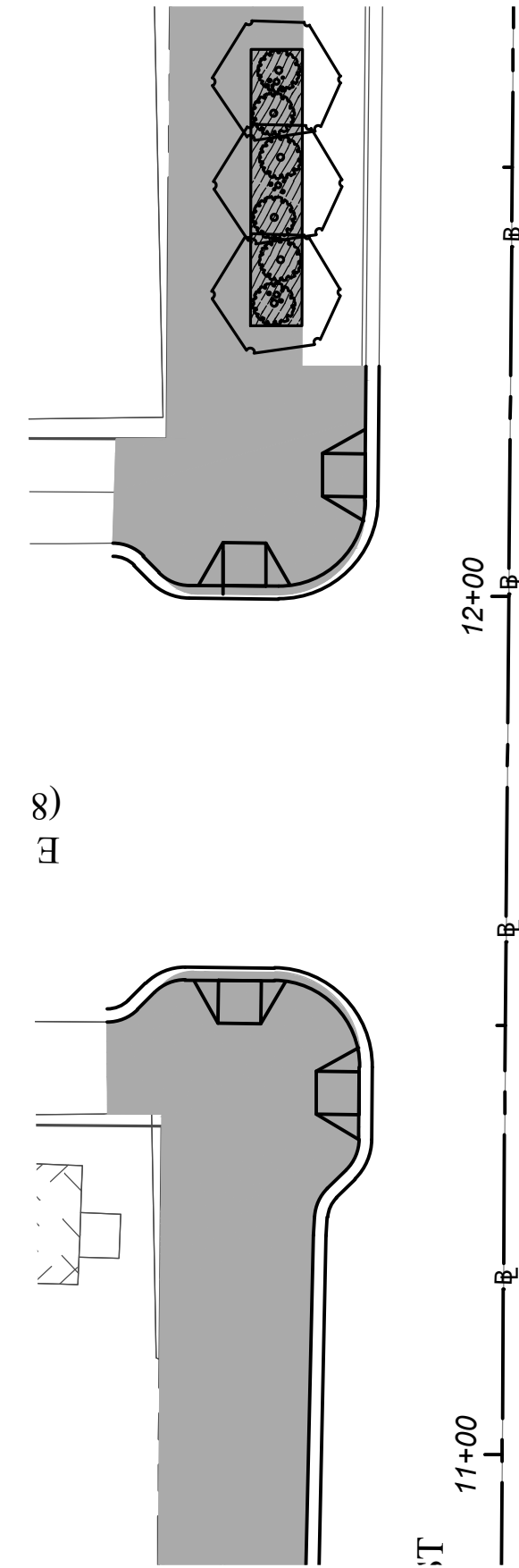
PROPOSED SITE PLAN
(SHEET 5 OF 6)



NOTES	NAME	DATE
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DRAWN BY	DS	
DESIGNED BY	CN	
CHECKED BY	ESD	
REVIEWED BY	KS	



GP-2020-____.PWD

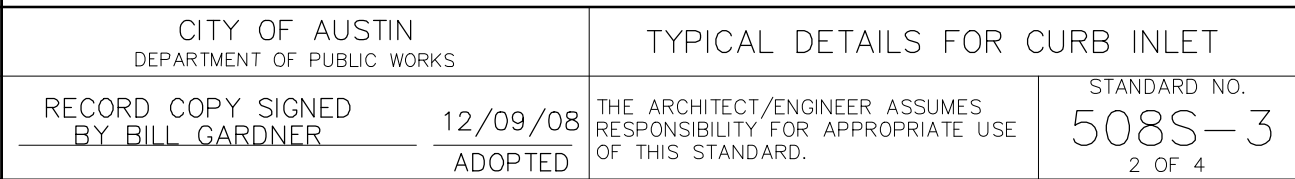
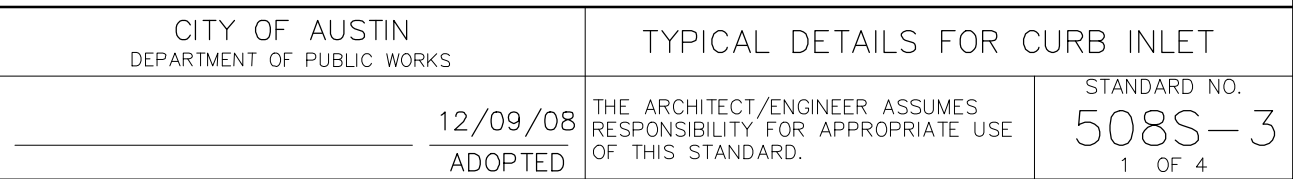
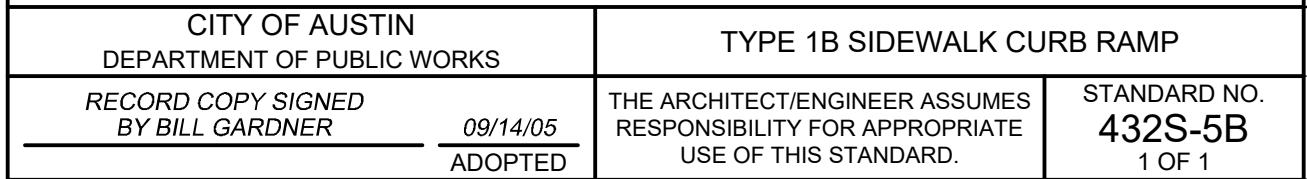


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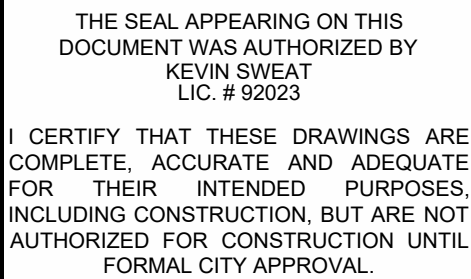
STATE OF TEXAS
★ ★ ★ ★ ★
KEVIN SWEAT
92023
LICENSED
PROFESSIONAL ENGINEER



CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS		TYPICAL DETAILS FOR CURB INLET	
RECORD COPY SIGNED BY BILL GARDNER	12/09/08 ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 508S-3 3 OF 4

- REFERENCES:
- FOR EXPANSION JOINT DOWEL AND DOWEL LOCATION DETAILS
SEE STD. 430S-3, "CURB EXPANSION JOINT DOWEL DETAIL".
- FOR 18" MANHOLE FRAME AND COVER DETAILS
SEE STD. 503S-1, "18" COVER AND FRAME".

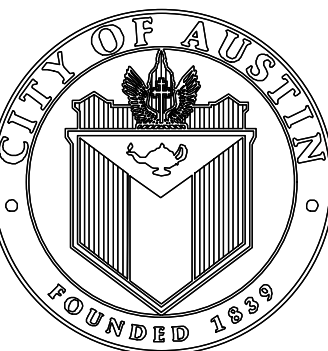
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CITY OF AUSTIN, TEXAS
 DEPARTMENT OF PUBLIC WORKS
 ENGINEERING SERVICES DIVISION

RED RIVER
 ENHANCEMENT

GENERAL CONSTRUCTION DETAILS
 (SHEET 2 OF 3)



NOTES	NAME	DATE
SURVEY BY		
DRAWN BY	DS	
DESIGNED BY	CN	
CHECKED BY	ESD	
REVIEWED BY	KS	



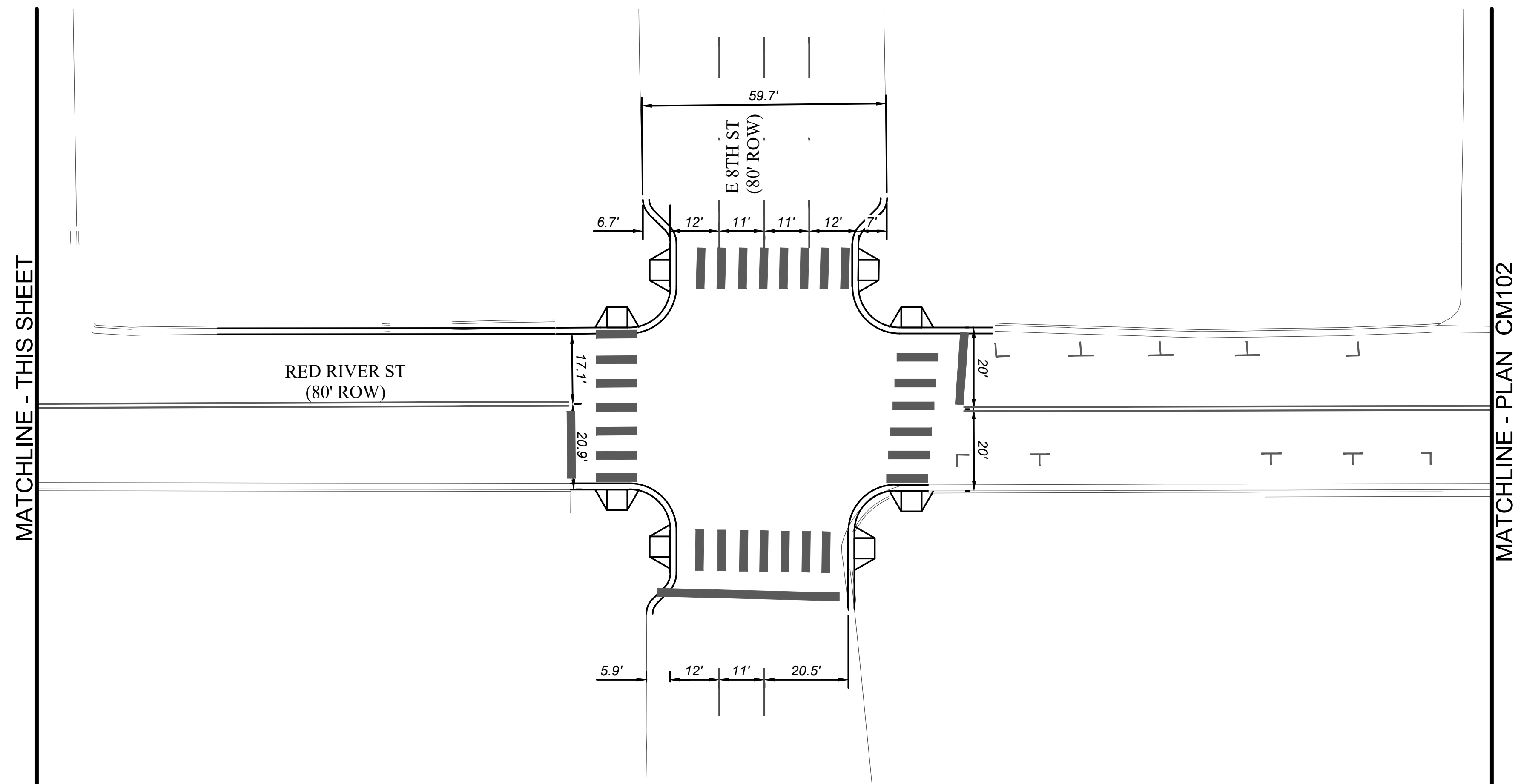
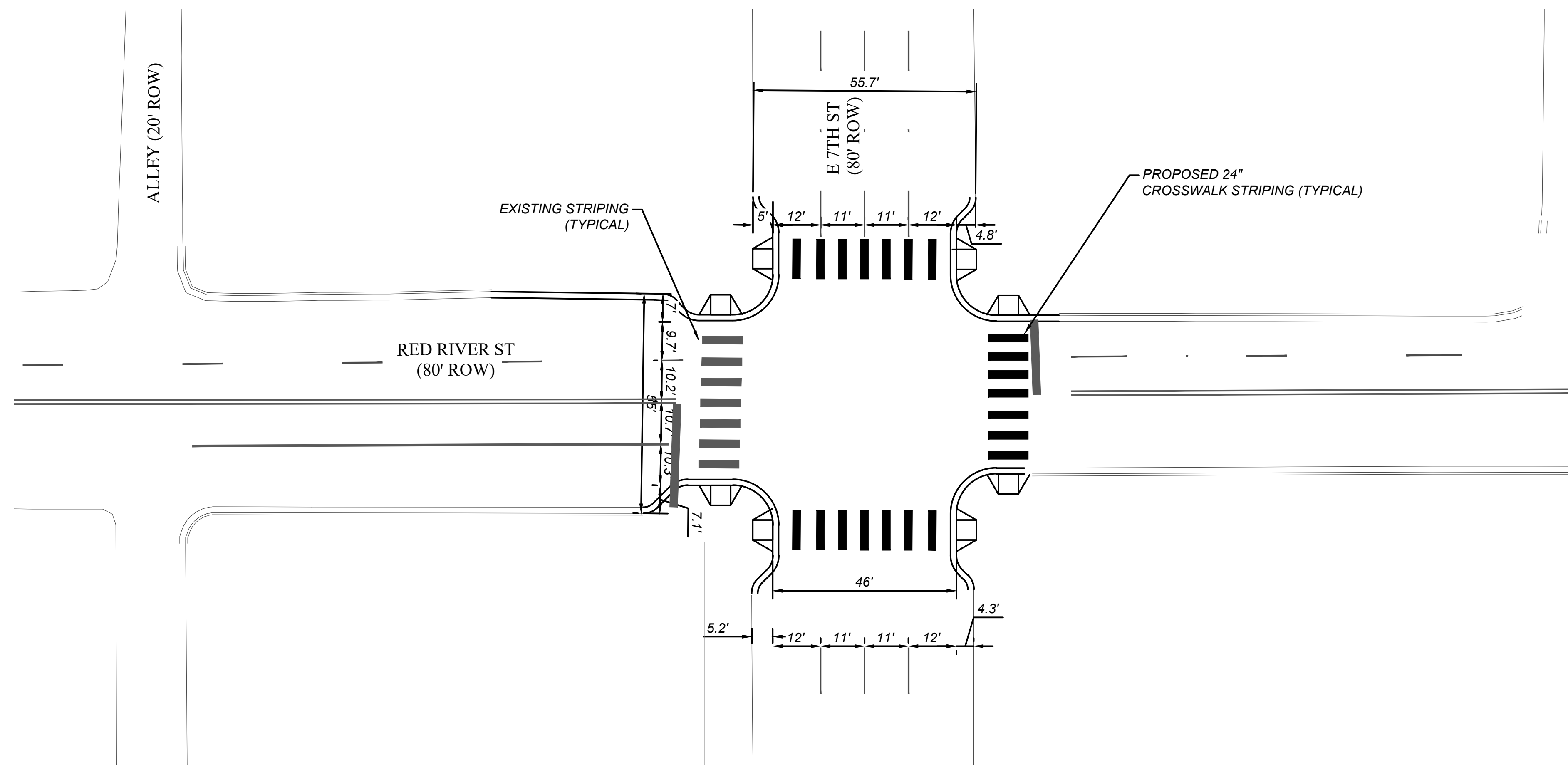
ENGINEERING SERVICES DIVISION

GP-2020-____.PWD

C502 | 26 OF 46



C503	<u>27</u> OF <u>46</u>
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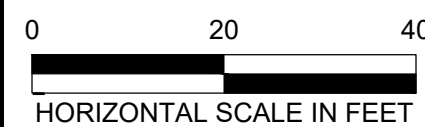
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CITY OF AUSTIN, TEXAS
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES DIVISION

RED RIVER ENHANCEMENT

PAVEMENT MARKING & SIGNING PLAN
(SHEET 1 OF 2)

NOTES	NAME	DATE
SURVEY BY		
DRAWN BY	DS	
DESIGNED BY	CN	
CHECKED BY	ESD	
REVIEWED BY	KS	



GP-2020-____.PWD

CM101 | 28 OF 46

C:\USERS\WEATKICITY OF AUSTIN\PWD-ESD - DATA\PROJECTS\IEDD REDRIVER IMPROVEMENTS\CAD\PRODUCTION FILES\DWG\IRRDIC-PM-PLAN.DWG, COA PDF 22X34, COA PLOT STYLES.STB

SWEAT, KEVIN

BARRICADING SUMMARY TABLE

STREETS									
STREET	CLASSIFICATION	PROTECTION	STREET FROM	STREET TO	PLANNED IMPROVEMENTS	TRAFFIC CONTROL PLAN SHEET / DETAIL	ALLOWED BARRICADING HOURS	DURATION (*)	COMMENTS
RED RIVER ST.	COLLECTOR		E. 6TH ST.	E. 7TH ST.	SIDEWALK IMPROVEMENTS		7 A.M. - 7 P.M. 7 DAYS		
RED RIVER ST.	COLLECTOR		E. 7TH ST.	E. 8TH ST.	SIDEWALK IMPROVEMENTS		7 A.M. - 7 P.M. 7 DAYS		
RED RIVER ST.	COLLECTOR		E. 8TH ST.	E. 9TH ST.	SIDEWALK IMPROVEMENTS		7 A.M. - 7 P.M. 7 DAYS		
RED RIVER ST.	COLLECTOR		E. 9TH ST.	E 10TH ST.	SIDEWALK IMPROVEMENTS		7 A.M. - 7 P.M. 7 DAYS		
E. 9TH ST.	COLLECTOR		RED RIVER ST.	NECHES ST.	SIDEWALK IMPROVEMENTS		7 A.M. - 7 P.M. 7 DAYS		
E. 7TH ST.	ARTERIAL		SABINE ST.	RED RIVER ST.	DRIVEWAY RECONSTRUCTION		7 A.M. - 7 P.M. 7 DAYS		
(*) PRIOR TO APPROVAL OF ROW PERMIT CONTRACTOR SHALL COMPLETE THE DURATION COLUMN OF THIS TABLE BASED UPON THE PROJECT SEQUENCING REQUIREMENTS AND PROPOSED MEANS AND METHODS FOR CONSTRUCTING THE PROJECT.									

INTERSECTIONS					
STREET INTERSECTION	PLANNED IMPROVEMENTS	TRAFFIC CONTROL PLAN SHEET / DETAIL	ALLOWED BARRICADING HOURS	DURATION (*)	COMMENTS
RED RIVER ST. AT E. 7TH ST.	PEDESTRIAN SAFETY GEOMETRIC IMPROVEMENTS		9:00 A.M. - 3:00 P.M. M-F, 7 A.M. - 7 P.M. SAT-SUN		
RED RIVER ST. AT E. 8TH ST.	PEDESTRIAN SAFETY GEOMETRIC IMPROVEMENTS		7 A.M. - 7 P.M. 7 DAYS		
RED RIVER ST. AT E. 9TH ST.	PEDESTRIAN SAFETY GEOMETRIC IMPROVEMENTS		7 A.M. - 7 P.M. 7 DAYS		
RED RIVER ST. AT E. 10TH ST.	PEDESTRIAN SAFETY GEOMETRIC IMPROVEMENTS		7 A.M. - 7 P.M. 7 DAYS		
(*) PRIOR TO APPROVAL OF ROW PERMIT CONTRACTOR SHALL COMPLETE THE DURATION COLUMN OF THIS TABLE BASED UPON THE PROJECT SEQUENCING REQUIREMENTS AND PROPOSED MEANS AND METHODS FOR CONSTRUCTING THE PROJECT.					

RIGHT OF WAY MANAGEMENT STANDARD NOTES

1. CONTRACTOR SHALL HAVE AN APPROVED RIGHT OF WAY (ROW) PERMIT AND TRAFFIC CONTROL PLAN (TCP) IN ELECTRONIC OR PAPER FORMATS ON SITE AT ALL TIMES WHEN WORKING IN THE ROW.
2. CONTRACTOR SHALL PROVIDE NOTIFICATION, AS PER THE LATEST MOBILITY GUIDELINES (MG-04).
3. UNLESS OTHERWISE APPROVED BY THE ROW DIVISION OF AUSTIN TRANSPORTATION DEPARTMENT (ATD): A.) ONLY ONE PHASE OF A TCP MAY BE SET AT ANY ONE TIME, AND B.) INITIAL SETUP AND PHASE CHANGES OF LONG-TERM WORK ZONES SHALL BE INSTALLED ON WEEKENDS.
4. ONCE TRAFFIC CONTROL HAS BEEN SET, THE AUTHORIZED AND COMPETENT REPRESENTATIVE FROM THE PROJECT TEAM/BARRICADE COMPANY WILL COMPLETE AND UPLOAD THE "CONTRACTOR'S SELF-INSPECTION CHECKLIST" FORM. SEE FORM AND DETAILED INSTRUCTIONS HERE
HTTPS://WWW.AUSTINTEXAS.GOV/PAGE/RIGHT-WAY-TRAFFIC-CONTROL
5. FOR ROW VIOLATIONS, AN INVESTIGATION FEE WILL BE ASSESSED FOR EACH OFFENSE UNTIL THE VIOLATION IS CORRECTED. SEE CURRENT FEE SCHEDULE HERE:
HTTPS://WWW.AUSTINTEXAS.GOV/SITES/DEFAULT/FILES/FILES/TRANSPORTATION/RIGHT_OF_WAY/APPROVED_ROW_FEES.PDF
6. EXCAVATIONS SHALL BE BACKFILLED OR PLATED WHEN REQUIRED TO OPEN TO TRAFFIC. TEMPORARY PAVING SHALL BE DONE ACCORDING TO CITY OF AUSTIN (COA) STANDARD DETAIL 1100S-4 (FOR HMAC OR PCC PAVEMENTS). FOR EXCAVATIONS EXCEEDING A TRANSVERSE WIDTH OF 5 FEET, THE CONTRACTOR SHALL PROVIDE AN ENGINEERED PLATING PLAN FOR REVIEW BY THE CITY.
7. PEDESTRIAN ROUTES IN AND AROUND THE WORK ZONE, INCLUDING CONSTRUCTION ENTRANCES, TEMPORARY WALKING PATHS, BYPASSES, COVERED WALKWAYS, AND DETOURS, MUST REMAIN ACCESSIBLE AND ADA COMPLIANT THROUGHOUT THE PROJECT.
8. ALL APPLICABLE SAFEGUARDS SHALL BE IN PLACE PER CHAPTER 33 OF THE INTERNATIONAL BUILDING CODE, TO INCLUDE PEDESTRIAN PROTECTIONS PER SECTION 3306.
9. "CONSTRUCTION ENTRANCE AHEAD" SIGNS MUST BE PLACED AT ALL APPROACHES TO CONSTRUCTION ENTRANCES, UNLESS OTHERWISE SHOWN ON THE APPROVED TCP.
10. EXISTING DRIVEWAYS SHALL NOT BE CLOSED EXCEPT WITH ADVANCE NOTICE TO THE AFFECTED BUSINESSES/RESIDENCES AND APPROVAL FROM THE ROW DIVISION OF ATD.
11. ALL TRAFFIC CONTROL DEVICES INCLUDING PROTECTIVE BARRIERS MUST BE CRASHWORTHY AND INSTALLED ACCORDING TO THE MANUFACTURER'S GUIDELINES. CRASHWORTHINESS SHALL BE DETERMINED PER MASH TESTING REQUIREMENTS.

12. OVERNIGHT PROTECTION OF WORK ZONES AND STORAGE OF MATERIAL/EQUIPMENT SHALL BE ACCORDING TO COA STANDARD DETAIL 804S-4.
13. THE NAME OF THE BARRICADE CONTRACTOR SHALL BE SHOWN ON THE NON-REFLECTIVE SURFACE OF ALL TRAFFIC CONTROL DEVICES IN ACCORDANCE WITH COA STANDARD DETAIL 804S-5.
14. THE CITY'S TRAFFIC ENGINEER OR INSPECTOR MAY MAKE OR REQUIRE FIELD ADJUSTMENTS TO ADDRESS ISSUES OF SAFETY AND MOBILITY.
15. IF EXISTING CAPITAL METRO BUS STOPS ARE WITHIN THE TEMPORARY TRAFFIC CONTROL OR DETOUR AREA, THE CONTRACTOR SHALL CONTACT CAPITAL METRO (LAURIE MICHEL AT (512) 621-5713 (MOBILE) / (512) 369-7701 (WORK), LAURIE.MICHEL@CAPMETRO.ORG) OR SERVICE.IMPACTS@CAPMETRO.ORG, TWO (2) WEEKS PRIOR TO SETTING UP THE TRAFFIC CONTROL DEVICES IN ORDER TO COORDINATE POTENTIAL BUS-STOP RELOCATION OR ANY OTHER RELATED ISSUES.
16. IF EXISTING SIGNALIZED INTERSECTIONS ARE WITHIN THE TEMPORARY TRAFFIC CONTROL AREA, THE CONTRACTOR SHALL CONTACT ATD - SIGNALS DIVISION AT (512) 974-4075, ONE WEEK PRIOR TO SETTING TRAFFIC CONTROL DEVICES.
17. THE RIGHT OF WAY SHALL BE RETURNED TO FULL USE AT THE END OF THE APPROVED WORK HOURS.
18. CONTRACTORS SHALL ADHERE TO ALL ROW SPECIAL EVENT ACTIVITY RESTRICTIONS, AS PER THE LATEST MOBILITY GUIDELINES (MG-08).
19. PROJECTS THAT ARE ROUTED THROUGH THE DAPCZ PROCESS ARE REQUIRED TO COORDINATE WITH THE OFFICE OF SPECIAL EVENTS ((512) 974-1000 OR TRANSPORTATIONSPECIALEVENTS@AUSTINTEXAS.GOV), IN CONJUNCTION WITH THE ROW DIVISION OF ATD. VISIT [CITY STAGE](#) FOR SCHEDULED EVENTS FOR ALL OF AUSTIN.
20. PURSUANT TO CITY CODE 9-2-3, ROW WORK MUST NOT MAKE NOISE AUDIBLE TO AN ADJACENT BUSINESS OR RESIDENCE BETWEEN 10:30 PM AND 7:00 AM OR OPERATE A MACHINE THAT SEPARATES, GATHERS, GRADES, LOADS AND UNLOADS SAND, ROCK OR GRAVEL WITHIN 600 FEET OF A RESIDENCE, CHURCH, HOSPITAL, HOTEL OR MOTEL BETWEEN 7:00 PM AND 6:00 AM, EXCEPT FOR INSTALLATION OF CONCRETE AUTHORIZED BY A SEPARATE NON-PEAK HOUR CONCRETE POUR PERMIT ISSUED UNDER CITY CODE SECTION 9-2-21.

STREET PROTECTION & CLASSIFICATION:

STREET PROTECTION AND CLASSIFICATION ARE BASED ON PUBLIC WORKS PROTECTION STREETS LIST DATED OCTOBER 6TH, 2020.

NOTES FOR CONTRACTOR:

1. CONTRACTOR TO MAINTAIN ACCESS TO ALL RESIDENT'S DRIVEWAYS DURING CONSTRUCTION.
2. ONE WEEK PRIOR TO CONSTRUCTION, PUBLIC OUTREACH IS REQUIRED AND CONTRACTOR TO CALL THE 311 SYSTEM.
3. EXISTING SIDEWALKS SHALL REMAIN ACCESSIBLE AT ALL TIMES. IF NEEDED, A CONSTRUCTION FENCE SHALL BE PLACED FOR PEDESTRIAN SAFETY.
4. CONTRACTOR MAY USE COA STANDARD DETAIL 804S-1,SHEET 9 OF 9 FOR SIGN SPACING.

MESSAGE BOARD TO READ AS FOLLOWS:

"UTILITY _ _" "STARTING" "FOLLOW _ _"
"WORK _ _ _ _" "## / ## _ _ _" "DETOUR _ _"

(# - THE MONTH AND DAY IN TWO DIGIT NUMBERS)

(MESSAGE BOARD ADVISES OF CONSTRUCTION PLACED A WEEK PRIOR TO CONSTRUCTION, INSTALL NOT TO BLOCK SIDEWALK)

SPECIAL PEDESTRIAN ACCOMMODATION NOTES:

1. PEDESTRIAN TRAFFIC MUST BE MAINTAINED. SIDEWALK CLOSURES USING COA STANDARD 804S-1, 4 OF 9 ARE ACCEPTABLE ONLY IN SITUATIONS WHERE PEDESTRIANS CAN BE DETOURED AROUND THE CLOSURE WITHIN ONE BLOCK, AND/OR WITHIN A DISTANCE OF 1,000 FEET. PEDESTRIAN STREET CROSSINGS CAN BE MADE AT DESIGNATED CROSSWALKS ONLY.
2. IF A PEDESTRIAN DETOUR IS NOT FEASIBLE, THE CONTRACTOR SHALL PROVIDE COMPETENT/TRAINED PERSONNEL TO ASSIST PEDESTRIANS AROUND THE ACTIVE WORK ZONE SAFELY.

CAPITAL METRO BUS STOP COORDINATION:

1. FOR ANY CONSTRUCTION THAT WILL POTENTIALLY IMPACT BUS ROUTES OR BUS STOPS FOR THE CAPITAL METRO SERVICE AREA, CONTACT MARK A. HERRERA (512) 369-6548 OR MARK.HERRERA@CAPMETRO.ORG AT LEAST 48 HOURS PRIOR TO TRAFFIC CONTROL SET UP.

ALLEY CLOSURE COORDINATION:

1. ALLEY CLOSURES REQUIRE AUSTIN RESOURCE RECOVERY (ARR) COORDINATION WITH LORI SCOTT (512) 974-1028 OR LORI.SCOTT@AUSTINTEXAS.GOV AND AREA BUSINESSES, ONE WEEK IN ADVANCE.

NO PARKING SIGNS:

1. ALL NO PARKING SIGNS MUST BE PLACED AT 45 DEGREE ANGLE TO TRAFFIC, AT 50' MINIMUM / 75' MAXIMUM SPACING, NO MORE THAN 48 HOURS IN ADVANCE. CONTACT DAVID SMITH WITH COA METER SHOP AT (512) 974-1553 TO HOOD METERS.
2. THE SIGN CONFIGURATION LISTED BELOW SHALL APPLY AS IT IS REQUIRED EVERYWHERE WHERE "NO PARKING" IS NEEDED:



EXCEPTIONS TABLE

NOTE #	EXPLANATION OF EXCEPTION



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CITY OF AUSTIN, TEXAS
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES DIVISION

RED RIVER
ENHANCEMENT

TRAFFIC CONTROL NOTES




NOTES	NAME	DATE
SURVEY BY		
DRAWN BY	DS	
DESIGNED BY	CN	
CHECKED BY	ESD	
REVIEWED BY	KS	

ENGINEERING SERVICES
DIVISION


GP-2020-____.PWD

<h2 style="text-align: center;">Typical Transition Lengths and Suggested Maximum Spacing of Devices</h2>								
			MINIMUM DESIRABLE TAPER LENGTHS (L) METERS (FEET)			SUGGESTED MAX DEVICE SPACING		SUGGESTED SIGN SPACING METERS (FEET)
SPEED KPH	POSTED SPEED MPH	FORMULA	3.0(10) OFFSET METERS (FEET)	3.3(11) OFFSET METERS (FEET)	3.6(12) OFFSET METERS (FEET)	ON A TAPER METERS (FEET)	ON A TANGENT METERS (FEET)	"X" DIMENSION
50	30	$L = \frac{WS}{60}$	45 (150)	50 (165)	55 (180)	9 (30)	15-20 (50-65)	40 (120)
55	35		65 (205)	70 (225)	75 (245)	10 (35)	20-25 (65-80)	50 (160)
65	40		80 (265)	90 (295)	100 (320)	12 (40)	25-30 (80-100)	75 (240)
70	45		135 (450)	150 (495)	165 (540)	13 (45)	25-30 (80-100)	100 (320)
80	50	$L = WS$	150 (500)	165 (550)	180 (600)	15 (50)	30-35 (100-110)	120 (400)
90	55		165 (550)	185 (605)	200 (660)	16 (55)	35-40 (110-130)	150 (500)
95	60		180 (600)	200 (660)	220 (720)	18 (60)	40-45 (130-150)	180 (600)
105	65		195 (650)	215 (715)	235 (780)	19(65)	45-50 (150-165)	210 (700)
115	70		215 (770)	235 (770)	255 (840)	21 (70)	50-55 (165-180)	240 (800)


LEGEND



Channelizing devices

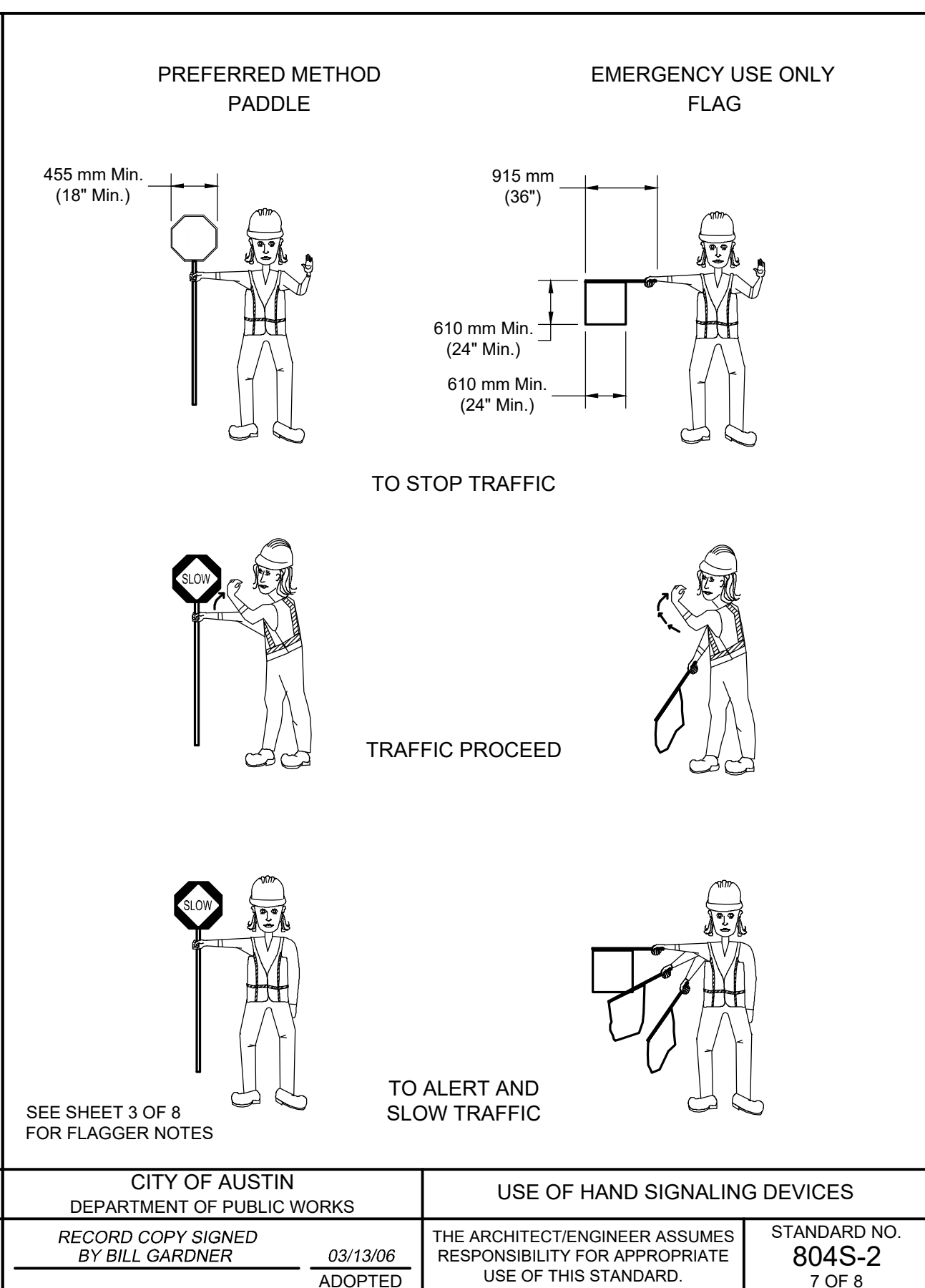
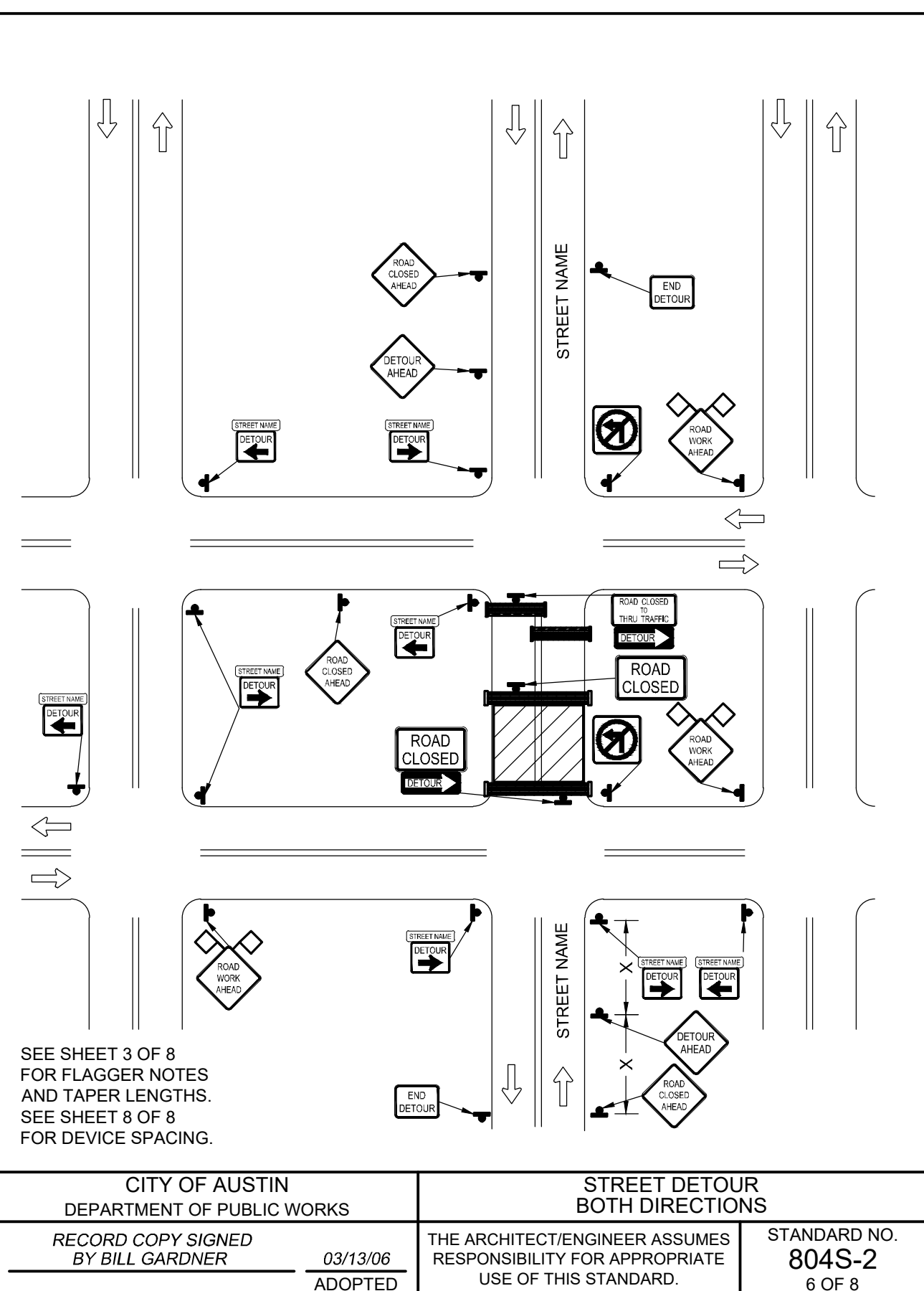
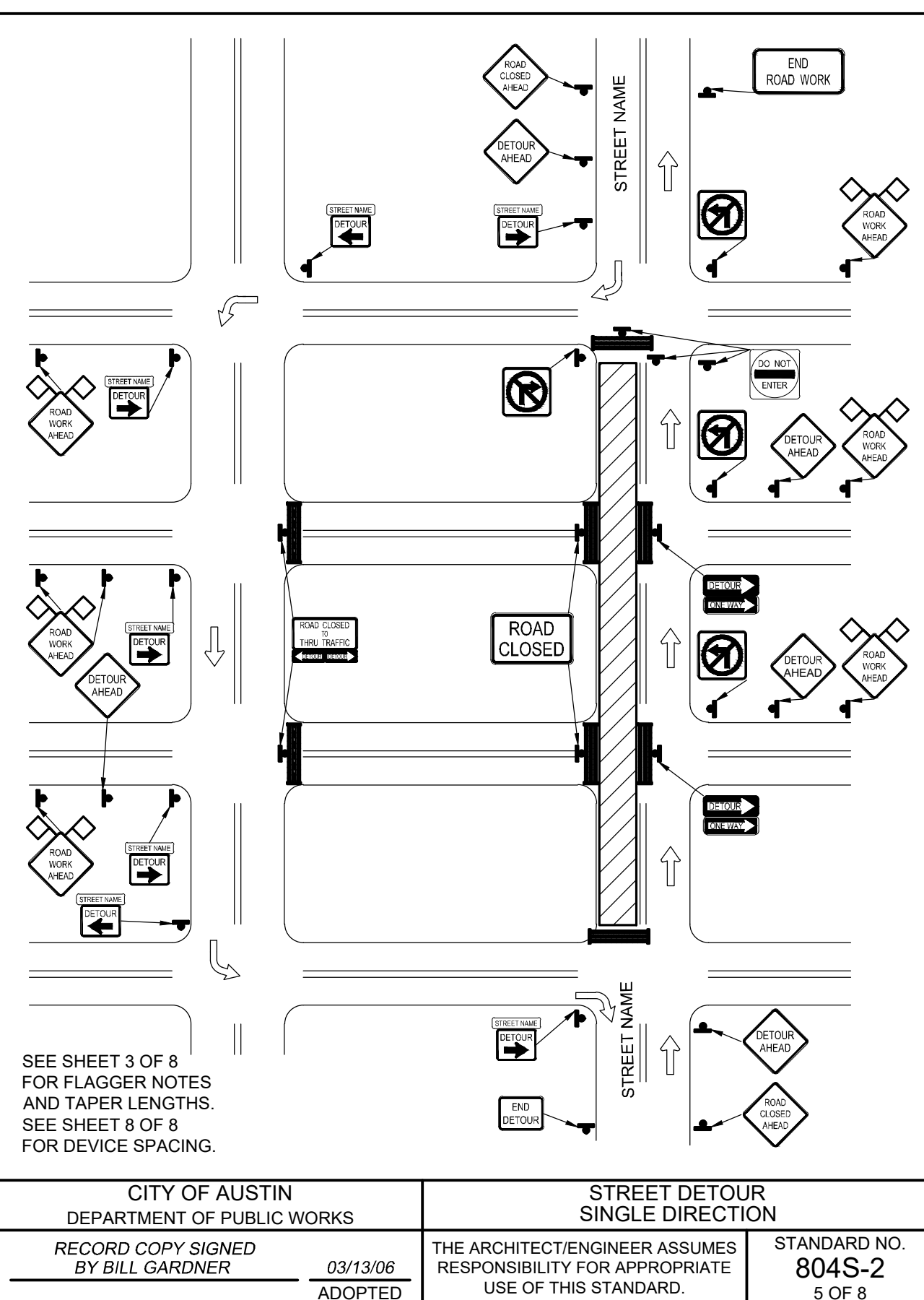
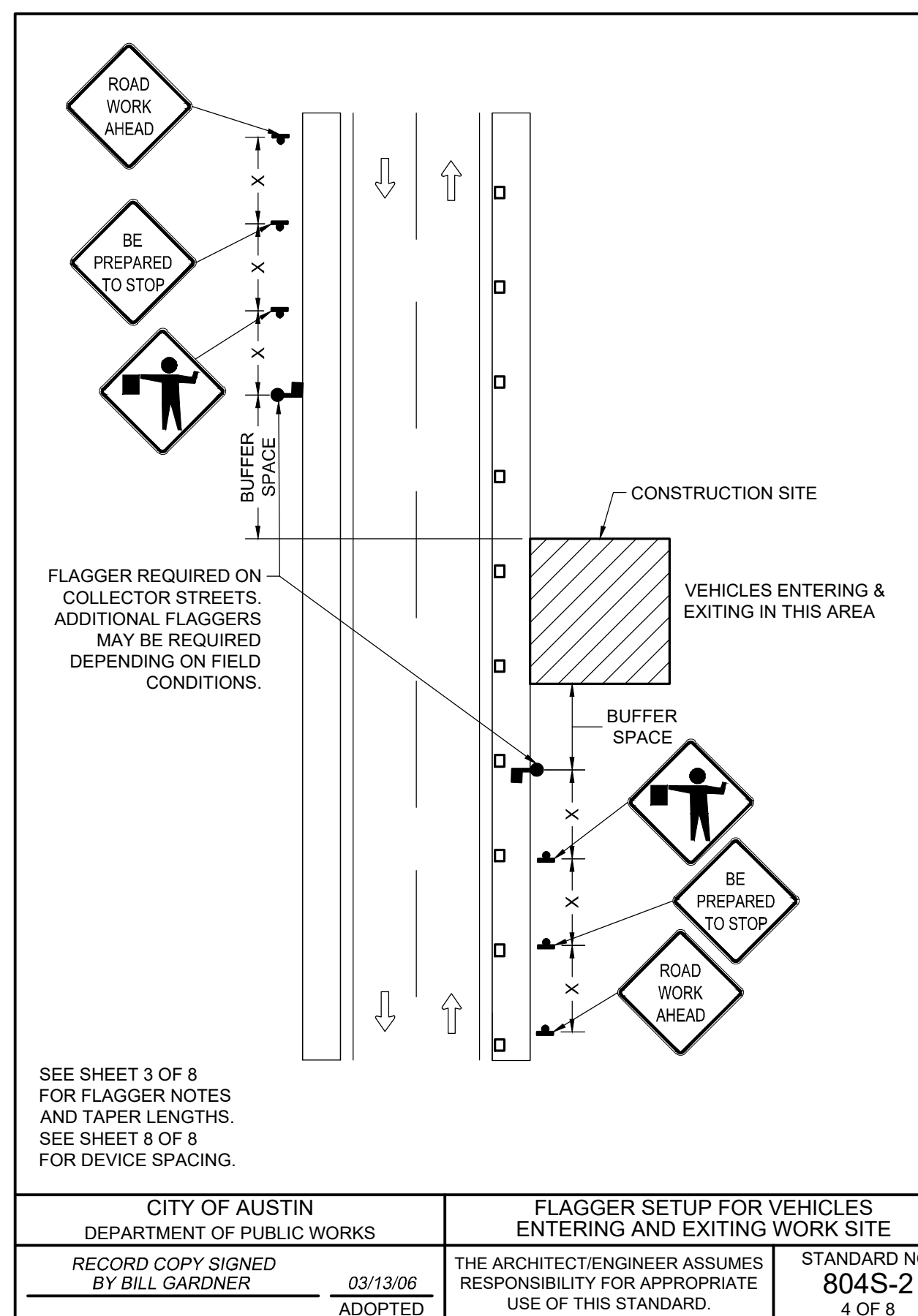
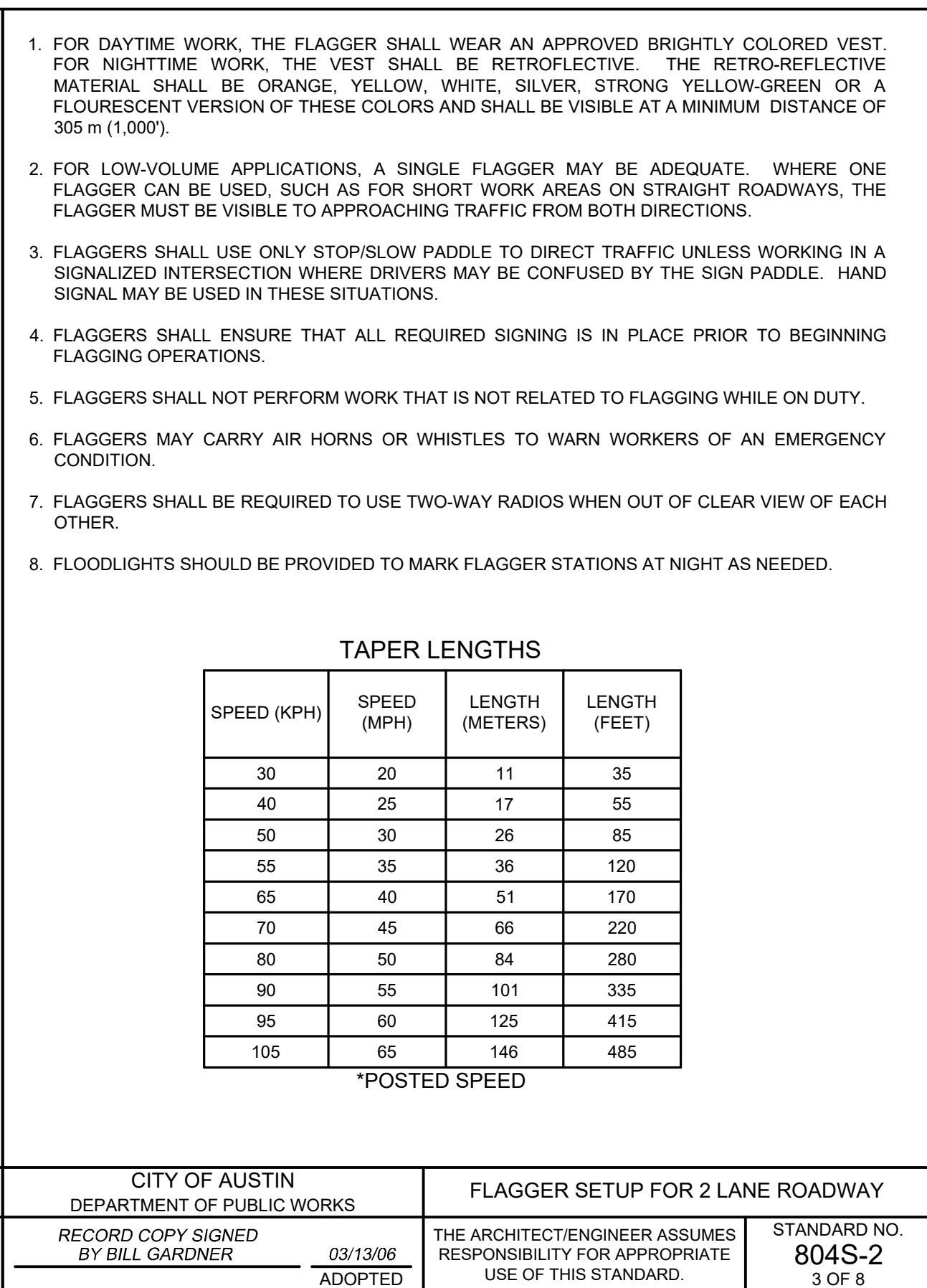
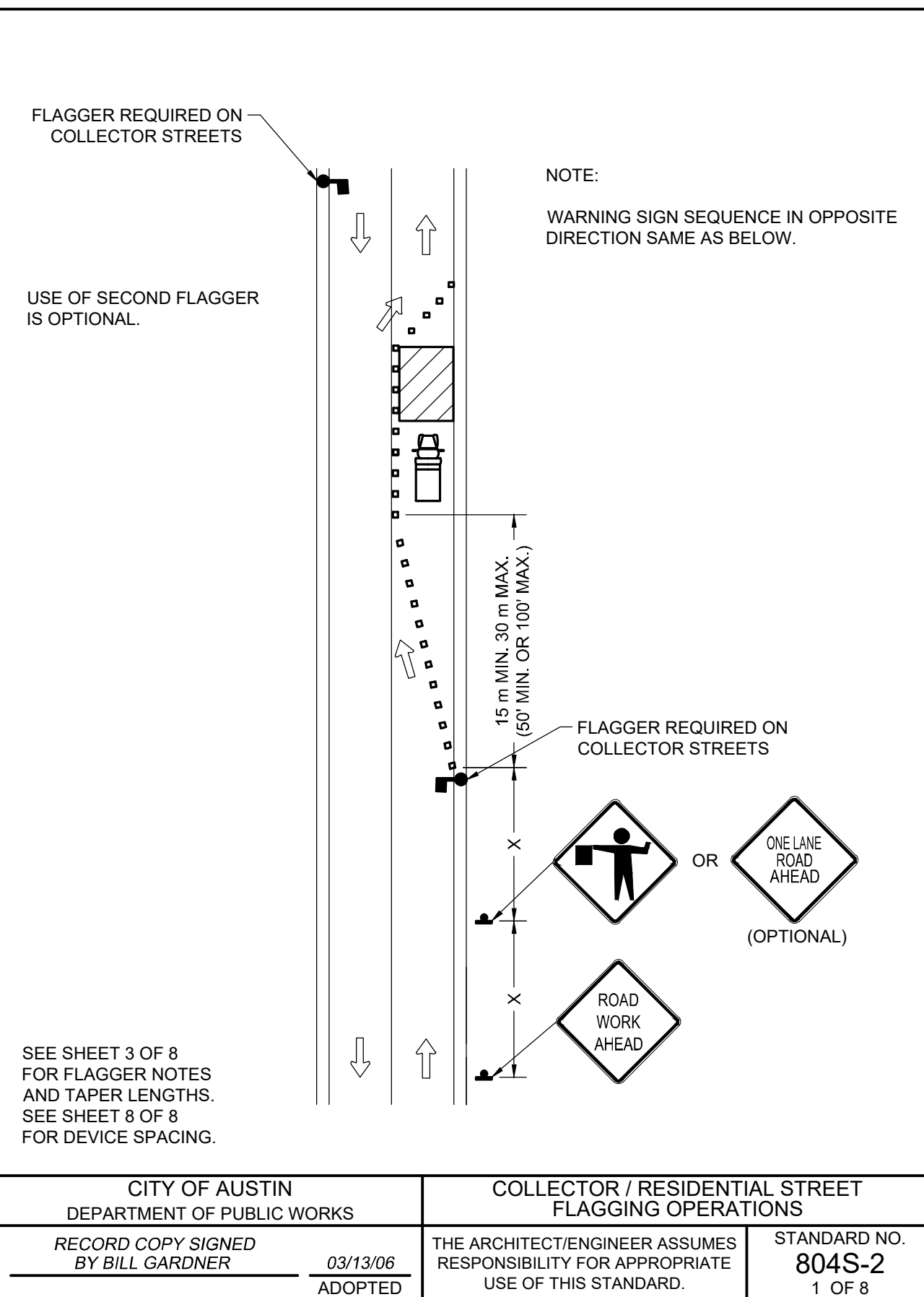


Flagger



Trailer mounted flashing arrow board

CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS	DEVICE SPACING
RECORD COPY SIGNED BY KERI JUAREZ	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.
01/04/11 ADOPTED	STANDARD N 804S-1 9 OF 9



Typical Transition Lengths and Suggested Maximum Spacing of Devices									
			MINIMUM DESIRABLE TAPER LENGTHS (L) METERS (FEET)			SUGGESTED MAX DEVICE SPACING		SUGGESTED SIGN SPACING METERS (FEET)	
SPEED KPH	POSTED SPEED MPH	FORMULA	3.0(10) OFFSET METERS (FEET)	3.3(11) OFFSET METERS (FEET)	3.6(12) OFFSET METERS (FEET)	ON A TAPER METERS (FEET)	ON A TANGENT METERS (FEET)	"X" Dimension	
50	30	L = $\frac{WS}{80}$	45 (150)	50 (165)	55 (180)	9 (30)	15-20 (50-65)	40 (120)	
55	35		65 (205)	70 (225)	75 (245)	10 (35)	20-25 (65-80)	50 (160)	
65	40		80 (265)	90 (295)	100 (320)	12 (40)	25-30 (80-100)	75 (240)	
70	45		135 (450)	150 (495)	165 (540)	13 (45)	25-30 (80-100)	100 (320)	
80	50	L = WS	150 (500)	165 (550)	180 (600)	15 (50)	30-35 (100-110)	120 (400)	
90	55		165 (550)	185 (605)	200 (660)	16 (55)	35-40 (110-130)	150 (500)	
95	80		180 (600)	200 (660)	220 (720)	18 (60)	40-45 (130-150)	180 (600)	
105	65		195 (650)	215 (715)	235 (780)	19(65)	45-50 (150-165)	210 (700)	
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LEGEND

☐ Channelizing devices

Flagger

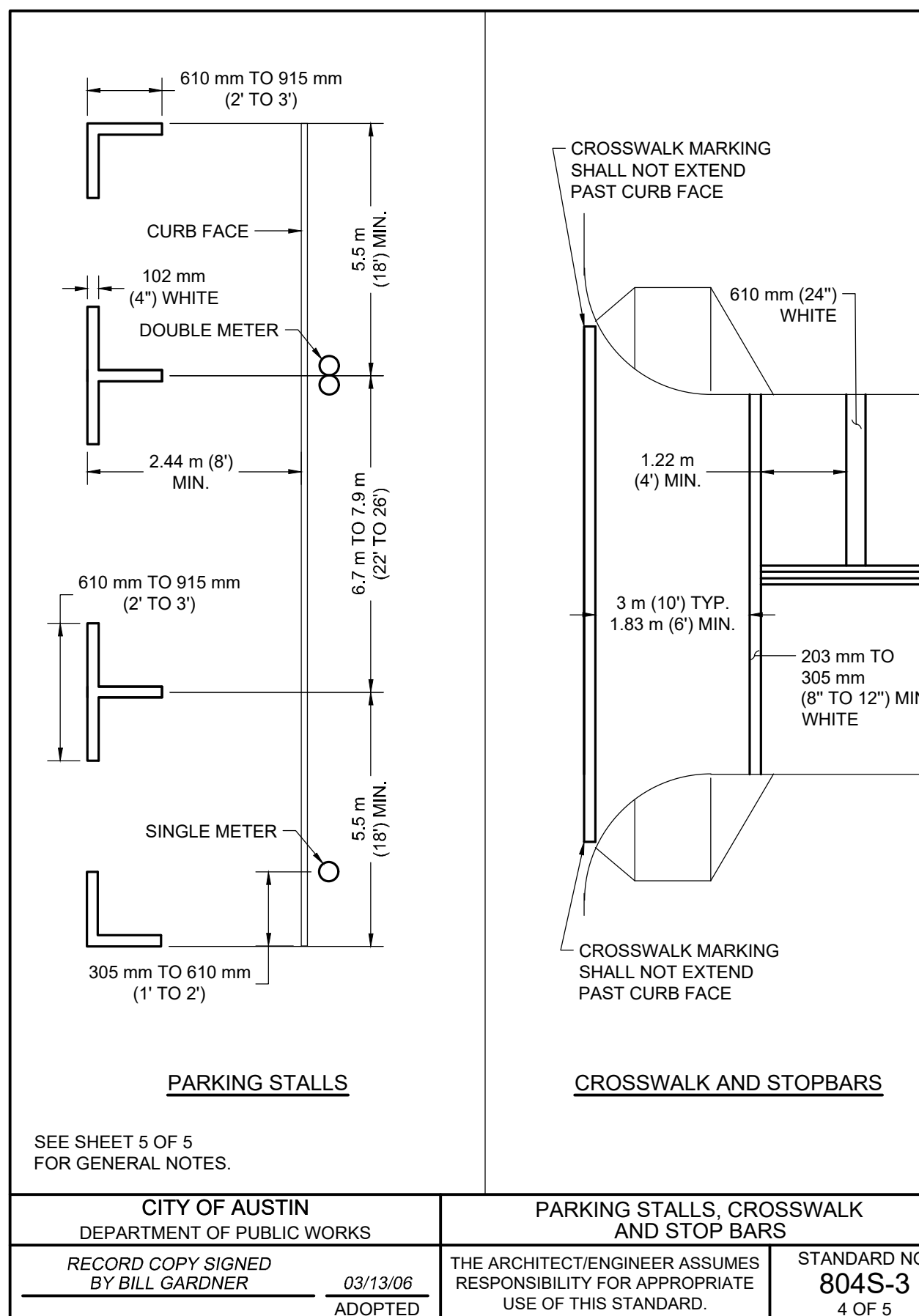
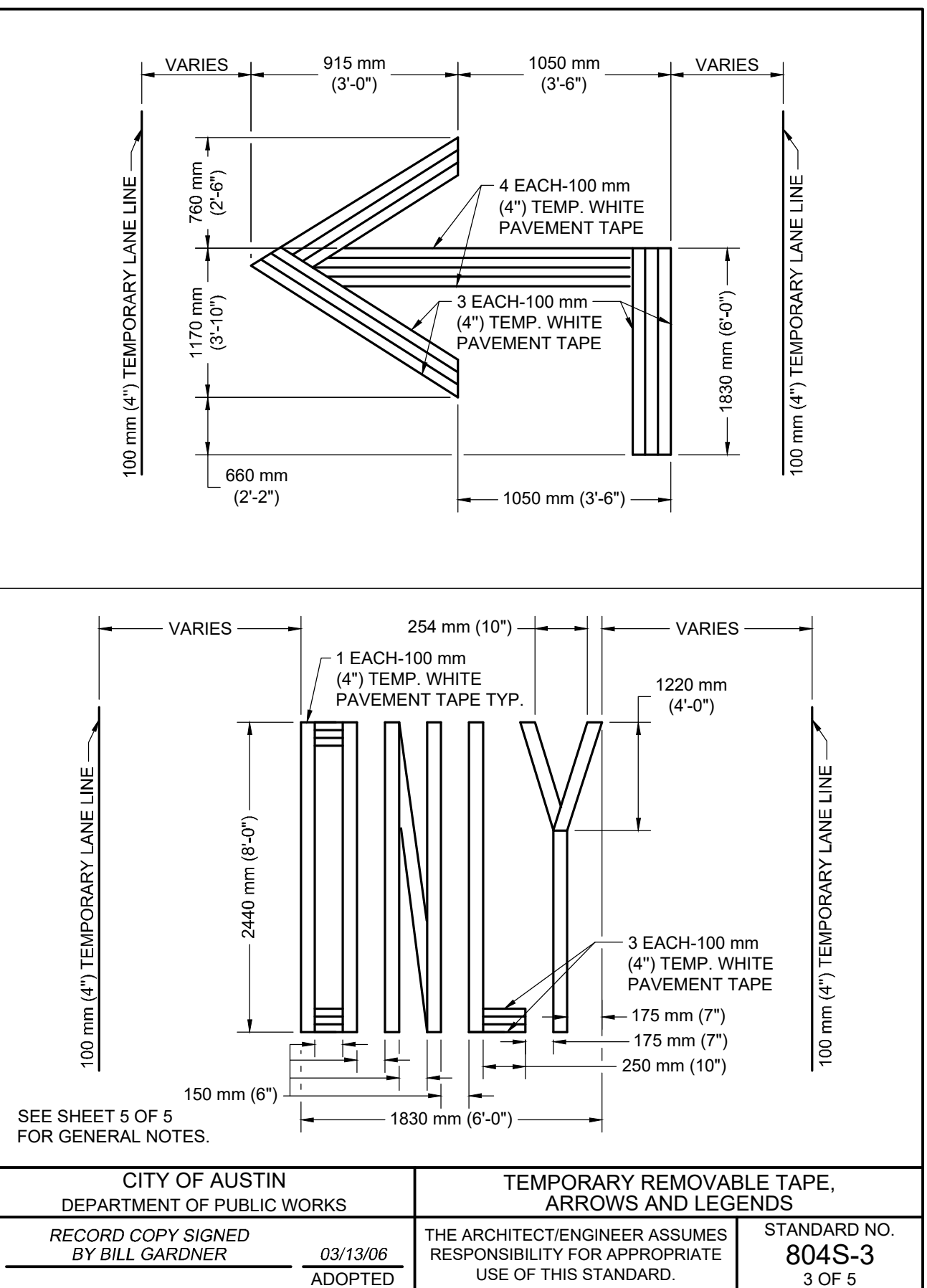
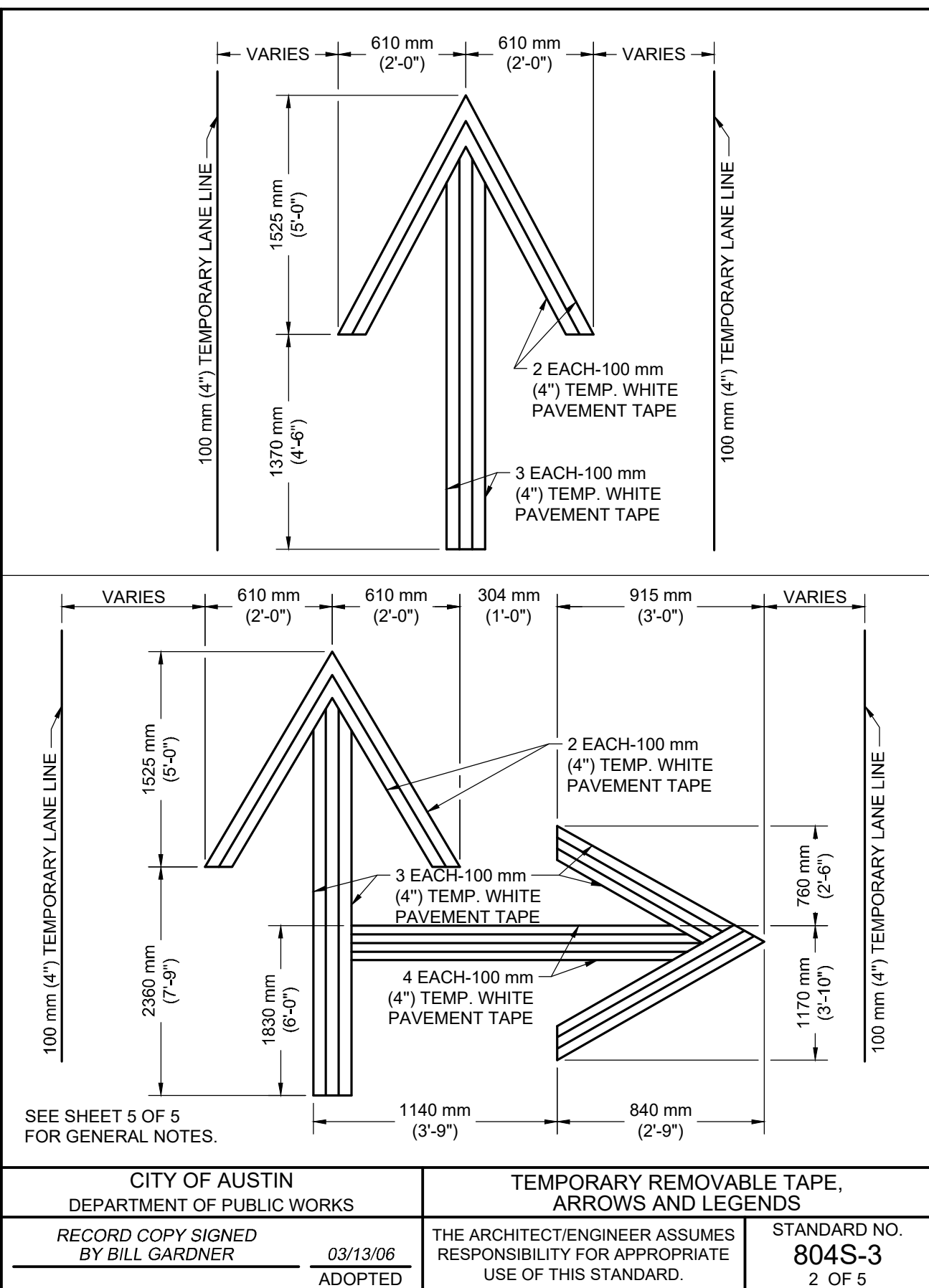
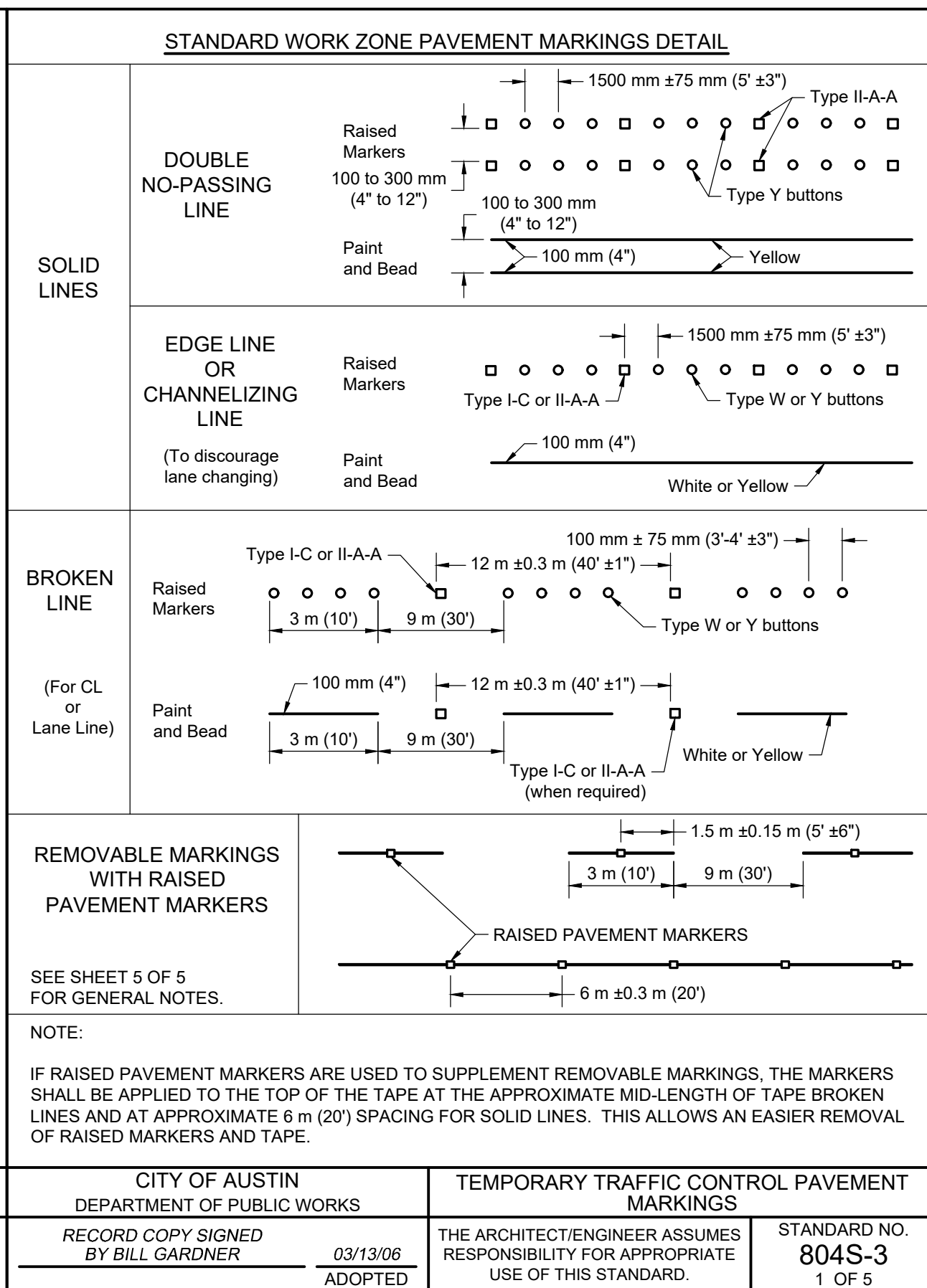
Trailer mounted flashing arrow board

TRAFFIC DETOUR NOTES:

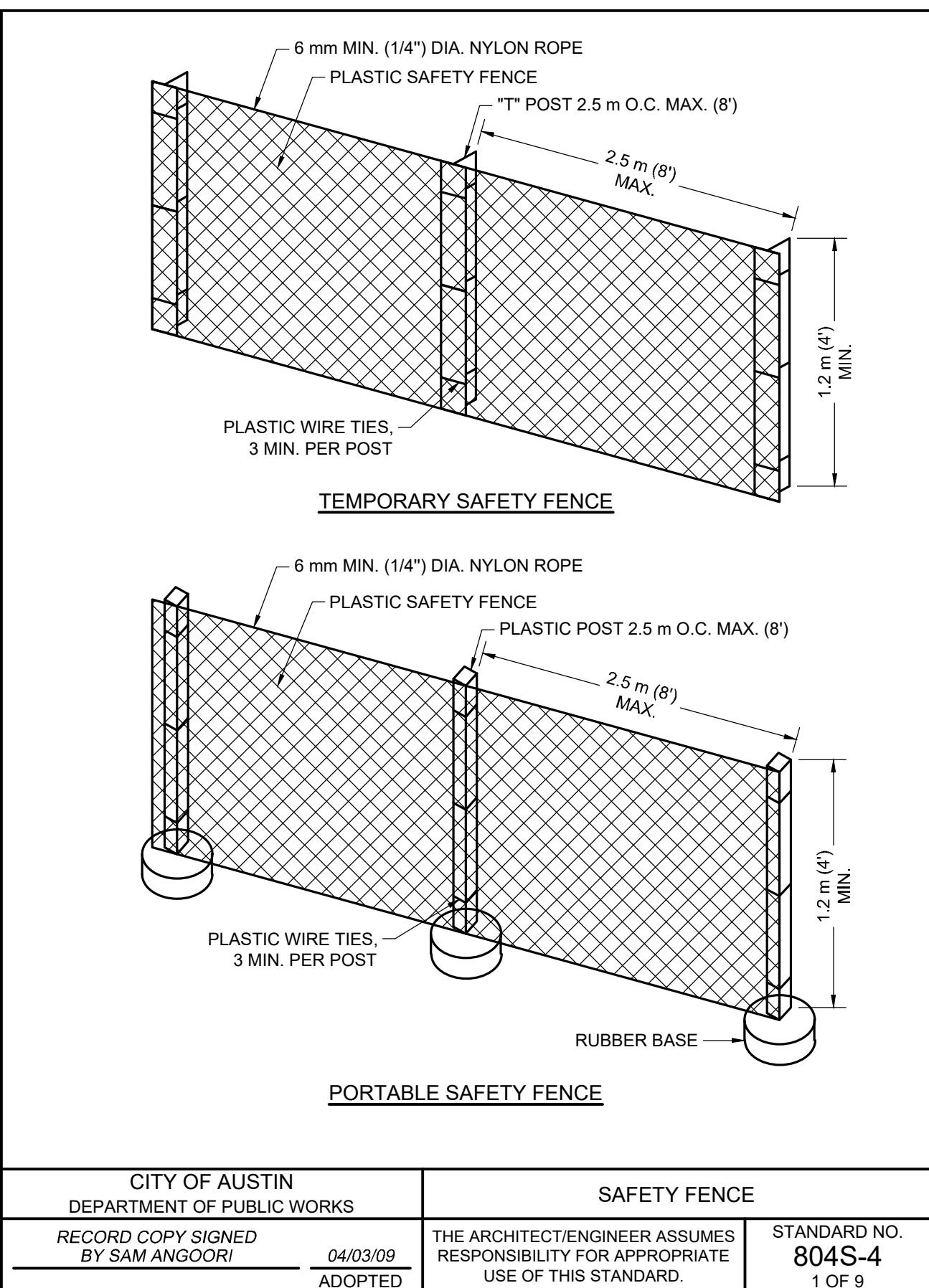
- "STREET CLOSED" AND "STREET CLOSED TO THRU TRAFFIC" MAY BE USED IN PLACE OF "ROAD CLOSED" AND "ROAD CLOSED TO THRU TRAFFIC"
- THE USE OF A STREET SIGN NAME MOUNTED WITH THE M-4-9 DETOUR SIGN** IS REQUIRED. THE STREET NAME PLATE SHOULD BE PLACED ABOVE THE DETOUR SIGN. THE PLATE MAY HAVE EITHER A WHITE-ON-GREEN OR A BLACK-ON-ORANGE LEGEND.
- ADDITIONAL "DO NOT ENTER SIGNS" MAY BE DESIRABLE AT INTERSECTIONS WITH INTERVENING STREETS.
- A M-4-9 DETOUR SIGN** WITH AN ADVANCE TURN ARROW MAY BE USED IN ADVANCE OF A TURN ON MULTILANE STREETS. SUCH SIGNS SHOULD BE USED.
- M-4-9 DETOUR SIGNS** MAY BE LOCATED ON THE FAR SIDE OF INTERSECTIONS.

** TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES

CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS	TYPICAL LENGTHS & SPACING OF DEVICES LEGEND AND GENERAL NOTES
RECORD COPY SIGNED BY BILL GARDNER	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.
03/13/06 ADOPTED	STANDARD NO 804S-2 8 OF 8



- | | |
|--|--|
| <ol style="list-style-type: none"> 1. ALL PAVEMENT MARKINGS USED SHALL CONFORM TO THE CURRENT EDITION OF THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (TMUTCD) AND THE CITY OF AUSTIN TRANSPORTATION CRITERIA MANUAL. 2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL TEMPORARY AND EXISTING PAVEMENT MARKINGS ON ALL ROADWAYS WITHIN THE CONSTRUCTION LIMITS AND ON ANY ROADWAY OUTSIDE THE CONSTRUCTION LIMITS THAT REQUIRES THE REROUTING OF TRAFFIC FOR HIS WORK. 3. ALL ROADWAYS TO BE OPENED TO TRAFFIC SHALL HAVE TEMPORARY OR STANDARD PAVEMENT MARKINGS INSTALLED AS SHOWN IN THE DRAWINGS, AT THE END OF EACH DAY'S OPERATION. 4. MARKINGS SHALL PROVIDE A VISIBLE REFERENCE FOR A MINIMUM DISTANCE OF 91.5 m (300') DURING NORMAL DAYLIGHT HOURS AND 49 m (160') WHEN ILLUMINATED BY AUTOMOBILE LOW-BEAM HEADLIGHTS AT NIGHT, UNLESS SIGHT DISTANCE IS RESTRICTED BY ROADWAY GEOMETRICS. 5. ALL TEMPORARY REMOVABLE PAVEMENT MARKINGS SHALL BE SUPPLEMENTED WITH RAISED PAVEMENT MARKERS. 6. TEMPORARY REMOVABLE PAVEMENT MARKING TAPE IS THE PREFERRED PAVEMENT MARKING; HOWEVER, THE CONTRACTOR MAY, WITH APPROVAL OF THE ENGINEER OR DESIGNATED REPRESENTATIVE, USE RAISED PAVEMENT MARKINGS, PAINT AND BEADS OR THERMOPLASTIC IF THE ROADWAY IS TO BE COMPLETELY RESURFACED. 7. PAVEMENT MARKINGS THAT ARE NO LONGER APPLICABLE AND WHICH MAY CREATE CONFUSION OR DIRECT A MOTORIST TOWARD OR INTO THE CLOSED PORTION OF THE ROADWAY, SHALL BE REMOVED OR OBLITERATED BEFORE THE ROADWAY IS OPENED TO TRAFFIC. THE ABOVE DOES NOT APPLY TO SHORT-DURATION, SHORT TERM STATIONARY OR INTERMEDIATE TERM STATIONARY WORK. 8. REMOVAL OR OBLITERATION OF PAVEMENT MARKINGS INCLUDES CENTERLINES, CHANNELIZING LINES, LANE LINES, EDGE LINES, WORDS, ARROWS, SYMBOLS AND RAISED PAVEMENT MARKINGS. 9. PAVEMENT MARKINGS SHALL BE REMOVED OR OBLITERATED TO THE FULLEST EXTENT POSSIBLE, SO AS NOT TO LEAVE A DISCERNIBLE MARK. GRINDING OF PAVEMENT MARKINGS WILL ONLY BE ALLOWED ON PAVEMENT THAT IS TO BE COMPLETELY REPLACED. 10. TEMPORARY FLEXIBLE-REFLECTIVE TABS MAY BE USED FOR TEMPORARY PAVEMENT MARKINGS ON NEW PAVEMENT, PROVIDED THEY ARE PLACED ON 1.5 m (5') CENTERS. 11. THE CONTRACTOR SHALL PLACE TEMPORARY FLEXIBLE-REFLECTIVE TABS IMMEDIATELY AFTER THE FINAL HMA OVERLAY AS EACH LANE IS COMPLETED AND READY FOR TRAFFIC. NO DIRECT PAYMENT WILL BE MADE FOR THIS OPERATION, BUT WILL BE CONSIDERED SUBSIDIARY TO THE OTHER BID ITEMS. FINAL STRIPING SHOULD BE COMPLETED WITHIN FOURTEEN (14) DAYS OF THE FINAL PAVING. | |
| <p align="center">CITY OF AUSTIN
DEPARTMENT OF PUBLIC WORKS</p> | <p align="center">GENERAL NOTES</p> |
| <p>RECORD COPY SIGNED
BY BILL GARONER</p> | <p>THE ARCHITECT/ENGINEER ASSUMES
RESPONSIBILITY FOR APPROPRIATE
USE OF THIS STANDARD.</p> |
| <p align="right">03/31/06
ADOPTED</p> | <p align="right">STANDARD NO.
804S-3
5 OF 5</p> |



- | | | | |
|---|--|---|--|
| 1. SAFETY FENCE USED TO PROTECT ALL EXCAVATIONS IN THE RIGHT-OF-WAY.
2. SAFETY FENCES SHALL BE USED TO SEPARATE CONSTRUCTION ACTIVITIES FROM PEDESTRIAN.
3. ALL SAFETY FENCING SHALL BE PLASTIC, 1,200 mm (48") MINIMUM HEIGHT AND ORANGE IN COLOR.
4. SAFETY FENCE USED WITHIN THE ROADWAY SHALL BE REFLECTORIZED WITH A MINIMUM OF TWO (2) STRIPS OF RETROREFLECTIVE MATERIAL. A MINIMUM OF 25 mm (1") WIDE, THE LENGTH OF THE FENCE OR DELINEATED BY CHANNELIZING DEVICES.
5. SAFETY FENCE USED TO SEPARATE SIDEWALKS FROM CONSTRUCTION ACTIVITIES SHALL HAVE MINIMUM ENCROACHMENT TO THE SIDEWALK.
6. AS A MINIMUM, SAFETY FENCING IS REQUIRED IN AREAS ADJACENT TO EXCAVATIONS GREATER THAN OR EQUAL TO 150 mm (6").
7. SAFETY FENCING SHALL BE PAID FOR UNDER ITEM 803S, "BARRICADES, SIGNS AND TRAFFIC HANDLING", PAY ITEM NO. 803S-SF.
8. PORTABLE SAFETY FENCE MOUNTS SHALL BE APPROVED BY THE TRANSPORTATION DIVISION PRIOR TO CONSTRUCTION. | | | |
| CITY OF AUSTIN
DEPARTMENT OF PUBLIC WORKS | | SAFETY FENCE | |
| RECORD COPY SIGNED
BY SAM ANGOORI | | THE ARCHITECT/ENGINEER ASSUMES
RESPONSIBILITY FOR APPROPRIATE
USE OF THIS STANDARD. | |
| 04/03/09
ADOPTED | | STANDARD NO.
804S-4
2 OF 9 | |

CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS		PARKING STALLS, CROSSWALK AND STOP BARS	
RECORD COPY SIGNED BY BILL GARDNER		THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 804S-3 4 OF 5
03/13/06 ADOPTED			

CITY OF AUSTIN		GENERAL NOTES	
DEPARTMENT OF PUBLIC WORKS			
RECORD COPY SIGNED BY BILL GARDNER	03/13/06	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 804S-3
	ADOPTED		5 OF 5

CITY OF AUSTIN		SAFETY FENCE	
DEPARTMENT OF PUBLIC WORKS			
RECORD COPY SIGNED BY SAM ANGOORI		THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO.
_____ 04/03/09 _____ ADOPTED			804S-4 1 OF 9

CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS		SAFETY FENCE	
RECORD COPY SIGNED BY SAM ANGOORI	04/03/09	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 804S-4 2 OF 9
	ADOPTED		

[illegible]

750 mm (30")

120 mm (4 13/16")

88 mm (3 1/2")

63 mm (2 1/2")

900 mm (36")

575 mm (23")

ACCESS TO

Service

Food

Gasoline

A

B

C

D

50 mm (2") WHITE RETRO-REFLECTIVE BORDER

BLUE RETRO-REFLECTIVE BACKGROUND

WHITE RETRO-REFLECTIVE ARROW AND LETTERS

WHITE RETRO-REFLECTIVE BUSINESS LOGO

NOTES:

1. CONTRACTORS CAN MAKE BUSINESS NAMES REMOVABLE/CHANGEABLE AS AN OPTION.

2. BUSINESS LOGO ARE OPTIONAL. IF USED LETTERING MUST BE MINIMIZED.

CHANNELIZING DEVICES

BUSINESS ACCESS SIGNS AT COMMERCIAL DRIVES

CONSTRUCTION AREA

EXISTING DRIVEWAY

TYPE I BARRICADES

DRIVEWAY ACCESS BARRICADE DETAIL

MAY BE MOUNTED ON BACK OF CW20-1 SIGN WITH APPROVAL OF ENGINEER OR DESIGNATED REPRESENTATIVE

END ROAD WORK

TRAFFIC FINES DOUBLE

CROSSROAD

PROJECT

TRAFFIC FINES DOUBLE

END ROAD WORK

CROSSROAD

ROAD WORK AHEAD

CROSSROAD SIGNING AND BARRICADING

MAY BE MOUNTED ON BACK OF TMUTCD CW20-1 SIGN WITH APPROVAL OF ENGINEER OR DESIGNATED REPRESENTATIVE (TMUTCD-TEXAS MANUAL FOR UNIFORM TRAFFIC CONTROL DEVICES)

SEE STANDARD 804S-5 SHEET 12 OF 13 AND SHEET 13 OF 13 FOR GENERAL NOTES AND DEVICE SPACING.

- ALL TRAFFIC CONTROL DEVICES, SIGNS, BARRICADES AND WARNING SIGNS SHALL BE FURNISHED, PLACED, CONSTRUCTED AND MAINTAINED IN THE APPROPRIATE TYPES AND SIZES AND FLAGGER OPERATIONS EXECUTED IN ACCORDANCE WITH THE CURRENT EDITION OF THE TEXAS MANUAL ON UNIFORM CONTROL DEVICES (TMUTCD), THE CITY OF AUSTIN STANDARD SPECIFICATIONS SERIES 800 AND THE CITY OF AUSTIN TRANSPORTATION CRITERIA MANUAL, OR AS DIRECTED BY THE ENGINEER OR DESIGNATED REPRESENTATIVE. IF A CONFLICT ARISES THEN THE CITY OF AUSTIN TRANSPORTATION CRITERIA MANUAL SHALL CONTROL UNLESS OTHERWISE INSTRUCTED BY THE ENGINEER OR DESIGNATED REPRESENTATIVE.
- THE CONTRACTOR SHALL NOTIFY THE TRANSPORTATION DIVISION OF THE DEPARTMENT OF PUBLIC WORKS AT 974-7024 NO LATER THAN THE MONDAY OF THE WEEK DURING WHICH THE CONTRACTOR INTENDS TO SET UP BARRICADES TO START CONSTRUCTION.
- PROPOSED CONSTRUCTION TRAFFIC MOVEMENTS MAY REQUIRE EXISTING SIGNAL HEADS TO BE RELOCATED. THE CITY OF AUSTIN WILL REVIEW SIGNAL HEAD LOCATIONS DURING CONSTRUCTION AND PERFORM THE REQUIRED ADJUSTMENTS. THE CONTRACTOR SHALL CONTACT THE TRANSPORTATION DIVISION OF THE DEPARTMENT OF PUBLIC WORKS AT 974-7024, THREE (3) DAYS PRIOR TO PLACEMENT ANY TRAFFIC CONTROLS WHICH MAY REQUIRE SIGNAL HEAD ADJUSTMENTS/RELOCATION.
- THE CONTRACTOR SHALL PROVIDE ONE (1) FULL-TIME OFF-DUTY, UNIFORMED AUSTIN POLICE DEPARTMENT CERTIFIED PEACE OFFICER AND ONE (1) VEHICLE OF THE TYPE APPROVED BY THE ENGINEER OR DESIGNATED REPRESENTATIVE FOR TEMPORARY LANE CLOSURES WHEN UNDER SEALING, MILLING, PAVING AND WHEN WORKING IN INTERSECTIONS AS PART OF THE TRAFFIC CONTROL OPERATIONS. THE PEACE OFFICER SHALL BE ABLE TO SHOW PROOF OF CERTIFICATION BY THE TEXAS COMMISSION ON LAW ENFORCEMENT OFFICER STANDARDS.
- THE CONTRACTOR SHALL NOTIFY ALL OTHER GOVERNMENTAL AGENCIES WHOSE RIGHTS-OF-WAY ARE AFFECTED BY HIS WORK ACTIVITIES. THE CONTRACTOR SHALL PROVIDE ANY ADDITIONAL TRAFFIC CONTROL DEVICES THAT THEY MAY NEED.
- THE CONTRACTOR SHALL MAINTAIN ONE (1) DUST-FREE LANE OF TRAFFIC IN EACH DIRECTION AT ALL TIMES, UNLESS OTHERWISE NOTED IN THE DRAWINGS OR APPROVED THE ENGINEER OR DESIGNATED REPRESENTATIVE.
- THERE SHALL BE A MINIMUM OF THREE (3) METERS (10 FEET) CLEAR WIDTH FOR EACH LANE OF TRAFFIC IN CHANNELIZED AREAS, UNLESS OTHERWISE NOTED ON THE DRAWINGS OR APPROVED BY THE ENGINEER OR DESIGNATED REPRESENTATIVE.
- THE CONTRACTOR SHALL MAINTAIN DRIVEWAY ACCESS AT ALL TIMES. IF ACCESS CANNOT BE MAINTAINED, THE CONTRACTOR WITH THE APPROVAL OF THE ENGINEER OR DESIGNATED REPRESENTATIVE SHALL PROVIDE AT LEAST 24 HOUR WRITTEN NOTICE OF LIMITED ACCESS TO AFFECTED PROPERTY OWNERS. THE CONTRACTOR SHALL PROVIDE BUSINESS ACCESS SIGNS AS NEEDED TO INFORM DRIVERS OF THE LOCATIONS OF ALL DRIVEWAYS.
- TEMPORARY LANE CLOSURES IN THE CENTRAL BUSINESS DISTRICT (CBD) OR ON ARTERIAL STREETS SHALL NOT BE PERMITTED DURING THE HOURS OF 7 AM TO 9 AM AND 4 PM TO 6PM MONDAY THROUGH FRIDAY UNLESS PRIOR APPROVAL HAS BEEN OBTAINED FROM THE TRANSPORTATION DIVISION.
- TRAFFIC CONTROL SHOWN ON STANDARD DETAILS IS TYPICAL. ADDITIONAL SIGNING AND/OR BARRICADING, AS WELL AS TEMPORARY PAVEMENT MARKINGS AND OBLITERATION/RESTORATION OF EXISTING PAVEMENT MARKINGS, MAY BE REQUIRED DEPENDING ON FIELD CONDITIONS. FIELD ADJUSTMENTS TO TRAFFIC CONTROLS WILL NOT BE PAID FOR DIRECTLY, BUT WILL BE CONSIDERED SUBSIDIARY TO ITEM NO. 803S "BARRICADES, SIGNS AND TRAFFIC HANDLING".
- THE CONTRACTOR SHALL DESIGNATE A COMPETENT PERSON FOR TRAFFIC CONTROL. THE COMPETENT PERSON SHALL MAKE INSPECTIONS OF THE TRAFFIC CONTROL DEVICES AT LEAST TWO (2) TIMES A DAY (ONCE AT THE BEGINNING OF THE DAY AND ONCE AT THE END OF THE DAY), INCLUDING NON-WORKING DAYS, ENSURING THAT ALL DEVICES ARE IN THEIR PROPER PLACE AND ARE IN WORKING ORDER.
- ALL DEVICES SHALL BE MADE USING MATERIALS LISTED ON THE TxDOT APPROVED PRODUCTS LIST.

13. ALL PERSONS WORKING WITHIN THE RIGHT-OF-WAY SHALL WEAR A BRIGHTLY COLORED SAFETY VEST. FOR NIGHTTIME WORK THE VEST SHALL BE RETRO-REFLECTIVE.

14. WHEN AN INTERSECTION IS CLOSED FOR CONSTRUCTION, THE CONTRACTOR SHALL PROCEED WITH CONSTRUCTION IN SUCH A MANNER THAT THE CLOSURE TIME IS MINIMIZED.

15. THE CONTRACTOR SHALL NOTIFY THE CAPITAL METRO DISPATCHER AT 385-4295 ONE (1) WEEK PRIOR TO LANE CLOSURES ADJACENT TO BUS STOPS.

DURATION OF WORK

WORK DURATION IS A MAJOR FACTOR IN DETERMINING THE NUMBER AND TYPES OF DEVICES USED IN TEMPORARY TRAFFIC ZONES. THE FIVE (5) CATEGORIES OF WORK DURATION AND THEIR TIME AT A LOCATION ARE AS FOLLOWS:

LONG-TERM STATIONARY-WORK THAT OCCUPIES A LOCATION FOR MORE THAN 3 DAYS.

INTERMEDIATE-TERM STATIONARY-WORK THAT OCCUPIES A LOCATION FROM OVERNIGHT TO 3 DAYS.

SHORT-TERM STATIONARY-DAYTIME WORK THAT OCCUPIES A LOCATION FROM 1 TO 12 HOURS.

SHORT-DURATION WORK THAT OCCUPIES A LOCATION UP TO 1 HOUR.

MOBILE-WORK THAT MOVES INTERMITTENTLY OR CONTINUOUSLY.

Typical Transition Lengths and Suggested Maximum Spacing of Devices

Speed KMPH	Posted Speed MPH	Formula	Minimum Desirable Taper Lengths (L) Meters (Feet)	Suggested Max. Device Spacing	Suggested Sign Spacing Meters (Feet)
			3.0(10) Offset Meters (feet)	3.3(11) Offset Meters (feet)	3.6(12) Offset Meters (feet)
			On a taper Meters (feet)	On a tangent Meters (feet)	"X" Dimension
50	30	$L = \frac{WS^2}{60}$	45 (150)	50 (165)	55 (180)
55	35		65 (205)	70 (225)	75 (245)
65	40	L=WS	80 (265)	90 (295)	100 (320)
70	45		135 (450)	150 (495)	165 (540)
80	50	L=WS	150 (500)	165 (550)	180 (600)
90	55		185 (605)	200 (660)	220 (720)
95	60	L=WS	195 (650)	215 (715)	235 (780)
105	65		215 (705)	235 (770)	255 (840)
115	70	L=WS	215 (705)	235 (770)	255 (840)
			215 (705)	235 (770)	255 (840)

CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS	SPECIAL WORK ZONE SIGNS	CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS	SPECIAL WORK ZONE SIGNS	CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS	SIGNING AND BARRICADING CROSSROAD & DRIVEWAY	CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS	GENERAL TRAFFIC CONTROL NOTES
RECORD COPY SIGNED BY SAM ANGOORI	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 804S-5 10 OF 13	RECORD COPY SIGNED BY SAM ANGOORI	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 804S-5 11 OF 13	RECORD COPY SIGNED BY SAM ANGOORI	STANDARD NO. 804S-5 12 OF 13
01/04/10 ADOPTED			01/04/10 ADOPTED			RECORD COPY SIGNED BY SAM ANGOORI	STANDARD NO. 804S-5 13 OF 13
						01/04/10 ADOPTED	

REVISION DESCRIPTION

DATE

REV BY

NO.

STATE OF TEXAS

KEVIN SWEAT

92023

PROFESSIONAL ENGINEER

2020-12-22

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY KEVIN SWEAT LIC. # 92023

I CERTIFY THAT THESE DRAWINGS ARE COMPLETE, ACCURATE AND ADEQUATE FOR THEIR INTENDED PURPOSES, INCLUDING CONSTRUCTION, BUT ARE NOT AUTHORIZED FOR CONSTRUCTION UNTIL FORMAL CITY APPROVAL.

CITY OF AUSTIN, TEXAS

PUBLIC WORKS DEPARTMENT

ENGINEERING SERVICES DIVISION

RED RIVER

ENHANCEMENT

TRAFFIC CONTROL DETAILS (SHEET 6 OF 10)

CITY OF AUSTIN

FOUNDED 1859

NOTES

NAME

DATE

SURVEY BY

DRAWN BY

DESIGNED BY

CHECKED BY

REVIEWED BY

ESD

ENGINEERING SERVICES

DIVISION

GP-2020-____.PWD

CT506

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OF

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12/22/2020 11:25 AM

SWEAT, KEVIN

LANDSCAPE PLANTING NOTES

GENERAL

1. INFORMATION PROVIDED ON THIS PLAN IS GENERAL IN NATURE. DIMENSIONS, LOCATIONS, AND AREAS ARE APPROXIMATE AND SHOULD BE FIELD VERIFIED BEFORE INSTALLATION.
2. INSTALLED QUANTITIES OF PLANT MATERIALS MAY VARY FROM THOSE SHOWN ON THE PLAN AND SHOULD BE FIELD DETERMINED ACCORDING TO APPROPRIATE PLANT SPACING AND FIELD CONDITIONS. DISCREPANCIES BETWEEN THE FIELD CONDITIONS AND THE PLAN WHICH LIMIT THE CONTRACTOR SHOULD BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT OR PROJECT LANDSCAPE REPRESENTATIVE BEFORE INSTALLATION OF THE AREA IN QUESTION IS COMPLETE.
3. SUBSTITUTION OF PLANT SPECIES, SIZES, OR OTHER SPECIFIED MATERIALS WILL NOT BE ALLOWED WITHOUT PRIOR APPROVAL BY THE LANDSCAPE ARCHITECT OR PROJECT LANDSCAPE REPRESENTATIVE.
4. ALL PLANT MATERIAL MUST CONFORM TO THE GUIDELINES ESTABLISHED BY THE CURRENT AMERICAN STANDARD FOR NURSERY STOCK, PUBLISHED BY THE AMERICAN HORTICULTURE INDUSTRY ASSOCIATION OR EQUIVALENT.
5. ALL PLANT MATERIAL MUST BE APPROVED BY THE LANDSCAPE ARCHITECT OR PROJECT LANDSCAPE REPRESENTATIVE PRIOR TO PLANTING.
6. INSTALLATION OF ALL LANDSCAPING MUST BE COORDINATED WITH THE INSTALLATION OF RELATED IRRIGATION, SITE WORK, AND GRADING.
7. EXISTING TREES TO BE SAVED MUST BE PROTECTED BEFORE CONSTRUCTION BEGINS. SEE "TREE PROTECTION AND ENVIRONMENTAL NOTES" SHEET FOR TREE PROTECTION LOCATIONS AND TREE PROTECTION DETAILS. NO EQUIPMENT OR MATERIALS SHALL BE STORED OR OPERATED WITHIN THE FENCED AREAS.
8. LANDSCAPE ARCHITECT OR PROJECT LANDSCAPE REPRESENTATIVE CAN BE CONTACTED AT 512.974.7006 OR KIMBERLY.GILBERTSON@AUSTINTEXAS.GOV.

TREES - SPECIAL CONSTRUCTION TECHNIQUES

9. BEFORE EXCAVATION WITHIN TREE DRIP LINES OR THE REMOVAL OF TREES NEXT TO OTHER TREES THAT ARE TO REMAIN, MAKE A CLEAN CUT BETWEEN THE DISTURBED AND UNDISTURBED ROOT ZONES WITH A ROCK SAW OR SIMILAR EQUIPMENT TO MINIMIZE ROOT DAMAGE.
10. CRITICAL ROOT ZONE AREAS THAT CANNOT BE PROTECTED DURING CONSTRUCTION WITH FENCING AND WHERE HEAVY VEHICULAR TRAFFIC IS ANTICIPATED MUST BE COVERED WITH A MINIMUM OF 12 INCHES OF ORGANIC MULCH TO MINIMIZE SOIL COMPACTION. IN AREAS WITH HIGH SOIL PLASTICITY, PLACE GEOTEXTILE FABRIC (PER STANDARD SPEC. 620S) UNDER THE MULCH TO PREVENT EXCESSIVE MIXING OF THE SOIL AND MULCH. ADDITIONAL MATERIALS SUCH AS PLYWOOD MAY BE REQUIRED BY THE CITY ARBORIST TO MINIMIZE ROOT IMPACTS FROM HEAVY EQUIPMENT. ONCE THE PROJECT IS COMPLETE, SUPPLEMENTAL ROOT-PROTECTION MATERIALS SHOULD BE REMOVED AND MULCH COVER REDUCED FROM 12 TO 3 INCHES DEEP.
11. PERFORM ALL GRADING WITHIN CRITICAL ROOT ZONE AREAS BY HAND OR WITH SMALL EQUIPMENT TO MINIMIZE ROOT DAMAGE.
12. WATER ALL TREES IMPACTED BY CONSTRUCTION ACTIVITIES DEEPLY ONCE A WEEK DURING PERIOD OF HOT, DRY WEATHER. SPRAY TREE CROWNS WITH WATER PERIODICALLY TO REDUCE DUST ACCUMULATION ON THE LEAVES.
13. WHEN INSTALLING CONCRETE ADJACENT TO THE ROOT ZONE OF A TREE, USE A PLASTIC VAPOR BARRIER BEHIND THE CONCRETE TO PROHIBIT LEACHING OF LIME INTO THE SOIL.

TREES - FERTILIZER

14. HUMATE/NUTRIENT SOLUTIONS WITH MYCORRHIZAE COMPONENTS OR SOIL INJECTION AT RECOMMENDED RATES ARE TO BE USED WHEN APPROPRIATE. CONSTRUCTION WHICH WILL BE COMPLETED IN LESS THAN 90 DAYS MAY USE MATERIAL AT HALF THE RECOMMENDED RATES. ALTERNATIVE ORGANIC FERTILIZER MATERIALS ARE ACCEPTABLE WHEN APPROVED BY THE CITY ARBORIST.

TREES - TREE PROTECTION SIGNAGE

15. A LAMINATED SIGN (MIN. SIZE 8.5 x 11 INCHES) SHALL BE POSTED ON EACH TREE PROTECTIVE DEVICE AND AT LEAST EVERY 100 LINEAR FEET ON PROTECTIVE FENCING, IDENTIFYING THE FOLLOWING: TREE & ROOT PROTECTION ZONE, PER CITY OF AUSTIN CODE (CHAPTER 25-8, SUBCHAPTER B, ARTICLE 1). TREE PROTECTION AND SIGNAGE IS TO REMAIN IN PLACE FOR THE ENTIRETY OF THE CONSTRUCTION. SEE THIS SHEET FOR SIGN EXAMPLE.

SEQUENCE OF TREE CARE NOTES

1. ANALYSIS (SOIL, FOLIAR PRUNING, NUTRIENT, ETC.) AND REVIEW OF EACH TREE IMPACTED BY CONSTRUCTION BY CERTIFIED ARBORIST.
2. COORDINATE RECOMMENDATIONS WITH GENERAL PERMIT OFFICE. COORDINATE ALL PRECONSTRUCTION ACTIVITIES (INCLUDING PRUNING) WITH GENERAL PERMIT OFFICE.
3. PRUNE TREES AND APPLY PRECONSTRUCTION NUTRIENTS
4. INSTALL TREE PROTECTION (FENCING, BOARDING, ETC.)
5. MONITOR CONDITION OF TREES DURING CONSTRUCTION. COORDINATE ANY RECOMMENDATIONS AND IMPLEMENTATION FOR TREE CARE WITH GENERAL PERMIT OFFICE DURING CONSTRUCTION PERIOD (E.G. WATER, ADDITIONAL PRUNING, NUTRIENTS, TREE PROTECTION).
6. FOLLOWING CONSTRUCTION, AERATE TREES WITH AIR INJECTION
 - 6.1. SUPERSONIC NOZZLE, 90 PSIG, 150 SCFM, OR APPROVED EQUIVALENT
 - 6.2. AERATE SOIL TO 6 INCH DEPTH OR GREATER AS RECOMMENDED BY CERTIFIED ARBORIST
 - 6.3. REMOVE SOIL AND REPLACE WITH MULCH TO A DEPTH OF 3 INCHES
 - 6.4. PROTECT AERATED SOIL AND MULCH UNTIL FINAL ACCEPTANCE. DO NOT ALLOW COMPACTION OF AERATED AREAS OR MULCH
7. APPLY POSTCONSTRUCTION FERTILIZATION
8. REMOVE TREE PROTECTION
9. FOR ANY QUESTIONS: LANDSCAPE ARCHITECT OR PROJECT LANDSCAPE REPRESENTATIVE CAN BE CONTACTED AT 512.974.7006 OR KIMBERLY.GILBERTSON@AUSTINTEXAS.GOV.

NOTE: ALL TREE CARE INCLUDING PRUNING, AERATION, AND FERTILIZATION MUST BE COMPLETED BY A CERTIFIED ARBORIST.

TO PREVENT OAK WILT TRANSMISSION, AVOID PRUNING LIVE AND RED OAKS FEB 1 - JUNE 30. ALWAYS PAINT FRESH WOUNDS ON OAKS WITH WOUND DRESSING OR LATEX PAINT IMMEDIATELY AFTER PRUNING.

ECM 3.5.4 D. SPECIAL CONSTRUCTION TECHNIQUES

IN CONJUNCTION WITH REMEDIAL CARE, MITIGATION FOR TREES REMOVED MAY INCLUDE SPECIAL CONSTRUCTION TECHNIQUES NOT NORMALLY REQUIRED IN STANDARD SPECIFICATIONS. SOME OF THESE TECHNIQUES INCLUDE THE FOLLOWING:

1. PRIOR TO EXCAVATION WITHIN TREE DRILPIINES OR THE REMOVAL OF TREES ADJACENT TO OTHER TREES THAT ARE TO REMAIN, MAKE A CLEAN CUT BETWEEN THE DISTURBED AND UNDISTURBED ROOT ZONES WITH A ROCK SAW OR SIMILAR EQUIPMENT TO MINIMIZE ROOT DAMAGE.
2. IN CRITICAL ROOT ZONE AREAS THAT CANNOT BE PROTECTED DURING CONSTRUCTION WITH FENCING AND WHERE HEAVY VEHICULAR TRAFFIC IS ANTICIPATED, COVER THOSE AREAS WITH A MINIMUM OF 12 INCHES OF ORGANIC MULCH TO MINIMIZE SOIL COMPACTION. IN AREAS WITH HIGH SOIL PLASTICITY GEOTEXTILE FABRIC, PER STANDARD SPECIFICATION 620S, SHOULD BE PLACED UNDER THE MULCH TO PREVENT EXCESSIVE MIXING OF THE SOIL AND MULCH. ADDITIONALLY, MATERIAL SUCH AS PLYWOOD AND METAL SHEETS COULD BE REQUIRED BY THE CITY ARBORIST TO MINIMIZE ROOT IMPACTS FROM HEAVY EQUIPMENT. ONCE THE PROJECT IS COMPLETED, ALL MATERIALS SHOULD BE REMOVED, AND THE MULCH SHOULD BE REDUCED TO A DEPTH OF 3 INCHES.
3. PERFORM ALL GRADING WITHIN CRITICAL ROOT ZONE AREAS BY HAND OR WITH SMALL EQUIPMENT TO MINIMIZE ROOT DAMAGE.
4. WATER ALL TREES MOST HEAVILY IMPACTED BY CONSTRUCTION ACTIVITIES DEEPLY ONCE A WEEK DURING PERIODS OF HOT, DRY WEATHER. SPRAY TREE CROWNS WITH WATER PERIODICALLY TO REDUCE DUST ACCUMULATION ON THE LEAVES.
5. WHEN INSTALLING CONCRETE ADJACENT TO THE ROOT ZONE OF A TREE, USE A PLASTIC VAPOR BARRIER BEHIND THE CONCRETE TO PROHIBIT LEACHING OF LIME INTO THE SOIL.

APPENDIX P-6: REMEDIAL TREE CARE NOTES AERATION AND SUPPLEMENTAL NUTRIENT REQUIREMENTS FOR TREES WITHIN CONSTRUCTION ZONES

AS A COMPONENT OF AN EFFECTIVE REMEDIAL TREE CARE PROGRAM PER ENVIRONMENTAL CRITERIA MANUAL SECTION 3.5.4, PRESERVED TREES WITHIN THE LIMITS OF CONSTRUCTION MAY REQUIRE SOIL AERATION AND SUPPLEMENTAL NUTRIENTS. SOIL AND/OR FOLIAR ANALYSIS SHOULD BE USED TO DETERMINE THE NEED FOR SUPPLEMENTAL NUTRIENTS. THE CITY ARBORIST MAY REQUIRE THESE ANALYSES AS PART OF A COMPREHENSIVE TREE CARE PLAN. SOIL PH SHALL BE CONSIDERED WHEN DETERMINING THE FERTILIZATION COMPOSITION AS SOIL PH INFLUENCES THE TREE'S ABILITY TO UPTAKE NUTRIENTS FROM THE SOIL. IF ANALYSES INDICATE THE NEED FOR SUPPLEMENTAL NUTRIENTS, THEN HUMATE/NUTRIENT SOLUTIONS WITH MYCORRHIZAE COMPONENTS ARE HIGHLY RECOMMENDED. IN ADDITION, SOIL ANALYSIS MAY BE NEEDED TO DETERMINE IF ORGANIC MATERIAL OR BENEFICIAL MICROORGANISMS ARE NEEDED TO IMPROVE SOIL HEALTH. MATERIALS AND METHODS ARE TO BE APPROVED BY THE CITY ARBORIST (512-974-2755) PRIOR TO APPLICATION. THE OWNER OR GENERAL CONTRACTOR SHALL SELECT A FERTILIZATION CONTRACTOR AND ENSURE COORDINATION WITH THE CITY ARBORIST.

PRE-CONSTRUCTION TREATMENT SHOULD BE APPLIED IN THE APPROPRIATE SEASON, IDEALLY THE SEASON PRECEDING THE PROPOSED CONSTRUCTION. MINIMALLY, AREAS TO BE TREATED INCLUDE THE ENTIRE CRITICAL ROOT ZONE OF TREES AS DEPICTED ON THE CITY APPROVED PLANS. TREATMENT SHOULD INCLUDE, BUT NOT BE LIMITED TO, FERTILIZATION, SOIL TREATMENT, MULCHING, AND PROPER PRUNING.

POST-CONSTRUCTION TREATMENT SHOULD OCCUR DURING FINAL REVEGETATION OR AS DETERMINED BY A QUALIFIED ARBORIST AFTER CONSTRUCTION. CONSTRUCTION ACTIVITIES OFTEN RESULT IN A REDUCTION IN SOIL MACRO AND MICRO PORES AND AN INCREASE IN SOIL BULK DENSITY. TO AMELIORATE THE DEGRADED SOIL CONDITIONS, AERATION VIA WATER AND/OR AIR INJECTED INTO THE SOIL IS NEEDED OR BY OTHER METHODS AS APPROVED BY THE CITY ARBORIST. THE PROPOSED NUTRIENT MIX SPECIFICATIONS AND SOIL AND/OR FOLIAR ANALYSIS RESULTS NEED TO BE PROVIDED TO AND APPROVED BY THE CITY ARBORIST PRIOR TO APPLICATION (FAX # 512-974-3010 OR CITYARBORIST@AUSTINTEXAS.GOV). CONSTRUCTION WHICH WILL BE COMPLETED IN LESS THAN 90 DAYS MAY USE MATERIALS AT ½ RECOMMENDED RATES. ALTERNATIVE ORGANIC FERTILIZER MATERIALS ARE ACCEPTABLE WHEN APPROVED BY THE CITY ARBORIST. WITHIN 7 DAYS AFTER FERTILIZATION IS PERFORMED THE CONTRACTOR SHALL PROVIDE DOCUMENTATION OF THE WORK PERFORMED TO THE CITY ARBORIST, DEVELOPMENT SERVICES DEPARTMENT, P.O. BOX 1088, AUSTIN, TX 78767. THIS NOTE SHOULD BE REFERENCED AS ITEM #1 IN THE SEQUENCE OF CONSTRUCTION.

APPENDIX O: LANDSCAPE IRRIGATION NOTES

SITE DEVELOPMENT PERMIT - IRRIGATION NOTES

AUTOMATIC IRRIGATION SYSTEMS SHALL COMPLY WITH TCEQ CHAPTER 344, AS WELL AS THE FOLLOWING REQUIREMENTS:

1. THESE REQUIREMENTS SHALL BE NOTED ON THE SITE DEVELOPMENT PERMIT AND SHALL BE IMPLEMENTED AS PART OF THE LANDSCAPE INSPECTION:
 - 1.1. THE SYSTEM MUST PROVIDE A MOISTURE LEVEL ADEQUATE TO SUSTAIN GROWTH OF THE PLANTS MATERIALS;
 - 1.2. THE SYSTEM DOES NOT INCLUDE SPRAY IRRIGATION ON AREAS LESS THAN TEN (10) FEET WIDE (SUCH AS MERIDIANS, BUFFER STRIPS, AND PARKING LOT ISLANDS);
 - 1.3. CIRCUIT REMOTE CONTROL VALVES HAVE ADJUSTABLE FLOW CONTROLS;
 - 1.4. SERVICEABLE IN-HEAD CHECK VALVES AREA ADJACENT TO PAVED AREAS WHERE ELEVATION DIFFERENCES MAY CAUSE LOW HEAD DRAINAGE;
 - 1.5. A MASTER VALVE INSTALLED ON THE DISCHARGE SIDE OF THE BACKFLOW PREVENTER;
 - 1.6. ABOVE-GROUND IRRIGATION EMISSION DEVICES ARE SET BACK AT LEAST SIX (6) INCHES FROM IMPERVIOUS SURFACES;
 - 1.7. AN AUTOMATIC RAIN SHUT-OFF DEVICE SHUTS OFF THE IRRIGATION SYSTEM AUTOMATICALLY AFTER MORE THAN A ONE-HALF INCH ($\frac{1}{2}$) RAINFALL; AND
 - 1.8. NEWLY PLANTED TREES SHALL HAVE PERMANENT IRRIGATION CONSISTING OF DRIP OR BUBBLERS.
2. THE IRRIGATION INSTALLER SHALL DEVELOP AND PROVIDE AN AS-BUILT DESIGN PLAN TO THE CITY AT THE TIME THE FINAL IRRIGATION INSPECTION IS PERFORMED;
 - 2.1. UNLESS FISCAL SECURITY IS PROVIDED TO THE CITY FOR THE INSTALLATION OF THE SYSTEM, IT MUST BE OPERATIONAL AT THE TIME OF THE FINAL LANDSCAPE INSPECTION.
3. THE IRRIGATION INSTALLER SHALL ALSO PROVIDE EXHIBITS TO BE PERMANENTLY INSTALLED INSIDE OR ATTACHED TO THE IRRIGATION CONTROLLER, INCLUDING:
 - 3.1. A LAMINATED COPY OF THE WATER BUDGET CONTAINING ZONE NUMBERS, PRECIPITATION RATE, GALLONS PER MINUTE AND THE LOCATION OF THE ISOLATION VALVE; AND AN AS BUILT PLAN.
4. THE IRRIGATION INSTALLER SHALL PROVIDE A REPORT TO THE CITY ON A FORM PROVIDED BY AUSTIN WATER CERTIFYING COMPLIANCE WITH SUBSECTION 1. WHEN THE FINAL PLUMBING INSPECTION IS PERFORMED BY THE CITY.

SOURCE: RULE NO. R161-17.09, 5-16-2017; RULE NO. R61-18.01, 3-2-2018.



TREE & ROOT PROTECTION ZONE

Per City of Austin code (Chapter 25-8, Subchapter B, Article 1) this protective device is to remain in place for the entirety of the development project and illegal removal is subject to fines and work suspensions. Additional information can be obtained at the:
City Arborist (512-974-1876)
web site (<http://www.ci.austin.tx.us/trees/>).

Zona de Protección del Árbol y las Raíces: el dispositivo protector debe quedarse en el lugar para la totalidad del proyecto de la construcción. Para información adicional, contacta la Arborista Municipal (512) 974-1876 o http://www.ci.austin.tx.us/trees/trees_spanish.htm.

TREE PROTECTION SIGN

APPENDIX P-2: - CITY OF AUSTIN STANDARD NOTES FOR TREE AND NATURAL AREA PROTECTION

1. ALL TREES AND NATURAL AREAS SHOWN ON PLAN TO BE PRESERVED SHALL BE PROTECTED DURING CONSTRUCTION WITH TEMPORARY FENCING.
2. PROTECTIVE FENCES SHALL BE ERECTED ACCORDING TO CITY OF AUSTIN STANDARDS FOR TREE PROTECTION.
3. PROTECTIVE FENCES SHALL BE INSTALLED PRIOR TO THE START OF ANY SITE PREPARATION WORK (CLEARING, GRUBBING OR GRADING), AND SHALL BE MAINTAINED THROUGHOUT ALL PHASES OF THE CONSTRUCTION PROJECT.
4. EROSION AND SEDIMENTATION CONTROL BARRIERS SHALL BE INSTALLED OR MAINTAINED IN A MANNER WHICH DOES NOT RESULT IN SOIL BUILD-UP WITHIN TREE DRIP LINES.
5. PROTECTIVE FENCES SHALL SURROUND THE TREES OR GROUP OF TREES, AND WILL BE LOCATED AT THE OUTERMOST LIMIT OF BRANCHES (DRIP LINE) , FOR NATURAL AREAS, PROTECTIVE FENCES SHALL FOLLOW THE LIMIT OF CONSTRUCTION LINE, IN ORDER TO PREVENT THE FOLLOWING:
 - A. SOIL COMPACTION IN THE ROOT ZONE AREA RESULTING FROM VEHICULAR TRAFFIC OR STORAGE OF EQUIPMENT OR MATERIALS;
 - B. ROOT ZONE DISTURBANCES DUE TO GRADE CHANGES (GREATER THAN 6 INCHES CUT OR FILL), OR TRENCHING NOT REVIEWED AND AUTHORIZED BY THE CITY ARBORIST;
 - C. WOUNDS TO EXPOSED ROOTS, TRUNK OR LIMBS BY MECHANICAL EQUIPMENT;
 - D. OTHER ACTIVITIES DETRIMENTAL TO TREES SUCH AS CHEMICAL STORAGE, CEMENT TRUCK CLEANING, AND FIRES.
6. EXCEPTIONS TO INSTALLING FENCES AT TREE DRIP LINES MAY BE PERMITTED IN THE FOLLOWING CASES:
 - A. WHERE THERE IS TO BE AN APPROVED GRADE CHANGE, IMPERMEABLE PAVING SURFACE, TREE WELL, OR OTHER SUCH SITE DEVELOPMENT, ERECT THE FENCE APPROXIMATELY 2 TO 4 FEET BEYOND THE AREA DISTURBED;
 - B. WHERE PERMEABLE PAVING IS TO BE INSTALLED WITHIN A TREE'S DRIP LINE, ERECT THE FENCE AT THE OUTER LIMITS OF THE PERMEABLE PAVING AREA (PRIOR TO SITE GRADING SO THAT THIS AREA IS GRADED SEPARATELY PRIOR TO PAVING INSTALLATION TO MINIMIZED ROOT DAMAGE);
 - C. WHERE TREES ARE CLOSE TO PROPOSED BUILDINGS, ERECT THE FENCE TO ALLOW 6 TO 10 FEET OF WORK SPACE BETWEEN THE FENCE AND THE BUILDING;
 - D. WHERE THERE ARE SEVERE SPACE CONSTRAINTS DUE TO TRACT SIZE, OR OTHER SPECIAL REQUIREMENTS, CONTACT THE CITY ARBORIST AT 974-1876 TO DISCUSS ALTERNATIVES.

SPECIAL NOTE: FOR THE PROTECTION OF NATURAL AREAS, NO EXCEPTIONS TO INSTALLING FENCES AT THE LIMIT OF CONSTRUCTION LINE WILL BE PERMITTED.
7. WHERE ANY OF THE ABOVE EXCEPTIONS RESULT IN A FENCE BEING CLOSER THAN 4 FEET TO A TREE TRUNK, PROTECT THE TRUNK WITH STRAPPED-ON PLANKING TO A HEIGHT OF 8 FT (OR TO THE LIMITS OF LOWER BRANCHING) IN ADDITION TO THE REDUCED FENCING PROVIDED.
8. TREES APPROVED FOR REMOVAL SHALL BE REMOVED IN A MANNER WHICH DOES NOT IMPACT TREES TO BE PRESERVED.
9. ANY ROOTS EXPOSED BY CONSTRUCTION ACTIVITY SHALL BE PRUNED FLUSH WITH THE SOIL. BACKFILL ROOT AREAS WITH GOOD QUALITY TOP SOIL AS SOON AS POSSIBLE. IF EXPOSED ROOT AREAS ARE NOT BACKFILLED WITHIN 2 DAYS, COVER THEM WITH ORGANIC MATERIAL IN A MANNER WHICH REDUCES SOIL TEMPERATURE AND MINIMIZES WATER LOSS DUE TO EVAPORATION.
10. ANY TRENCHING REQUIRED FOR THE INSTALLATION OF LANDSCAPE IRRIGATION SHALL BE PLACED AS FAR FROM EXISTING TREE TRUNKS AS POSSIBLE.
11. NO LANDSCAPE TOPSOIL DRESSING GREATER THAN 4 INCHES SHALL BE PERMITTED WITHIN THE DRIP LINE OF TREES. NO SOIL IS PERMITTED ON THE ROOT FLARE OF ANY TREE.
12. PRUNING TO PROVIDE CLEARANCE FOR STRUCTURES, VEHICULAR TRAFFIC AND EQUIPMENT SHALL TAKE PLACE BEFORE DAMAGE OCCURS (RIPPING OF BRANCHES, ETC.).
13. ALL FINISHED PRUNING SHALL BE DONE ACCORDING TO RECOGNIZED, APPROVED STANDARDS OF THE INDUSTRY (REFERENCE THE NATIONAL ARBORIST ASSOCIATION PRUNING STANDARDS FOR SHADE TREES AVAILABLE ON REQUEST FROM THE CITY ARBORIST).
14. DEVIATIONS FROM THE ABOVE NOTES MAY BE CONSIDERED ORDINANCE VIOLATIONS IF THERE IS SUBSTANTIAL NON-COMPLIANCE OR IF A TREE SUSTAINS DAMAGE AS A RESULT.



THE SEAL APPEARING ON THIS
DOCUMENT WAS AUTHORIZED BY
KEVIN SWEAT

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CITY OF AUSTIN, TEXAS
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES DIVISION

RED RIVER ENHANCEMENT

LANDSCAPE AND IRRIGATION
NOTES

NOTES	NAME	DATE
SURVEY BY		
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DESIGNED BY	CN	
CHECKED BY	ESD	
REVIEWED BY	KS	



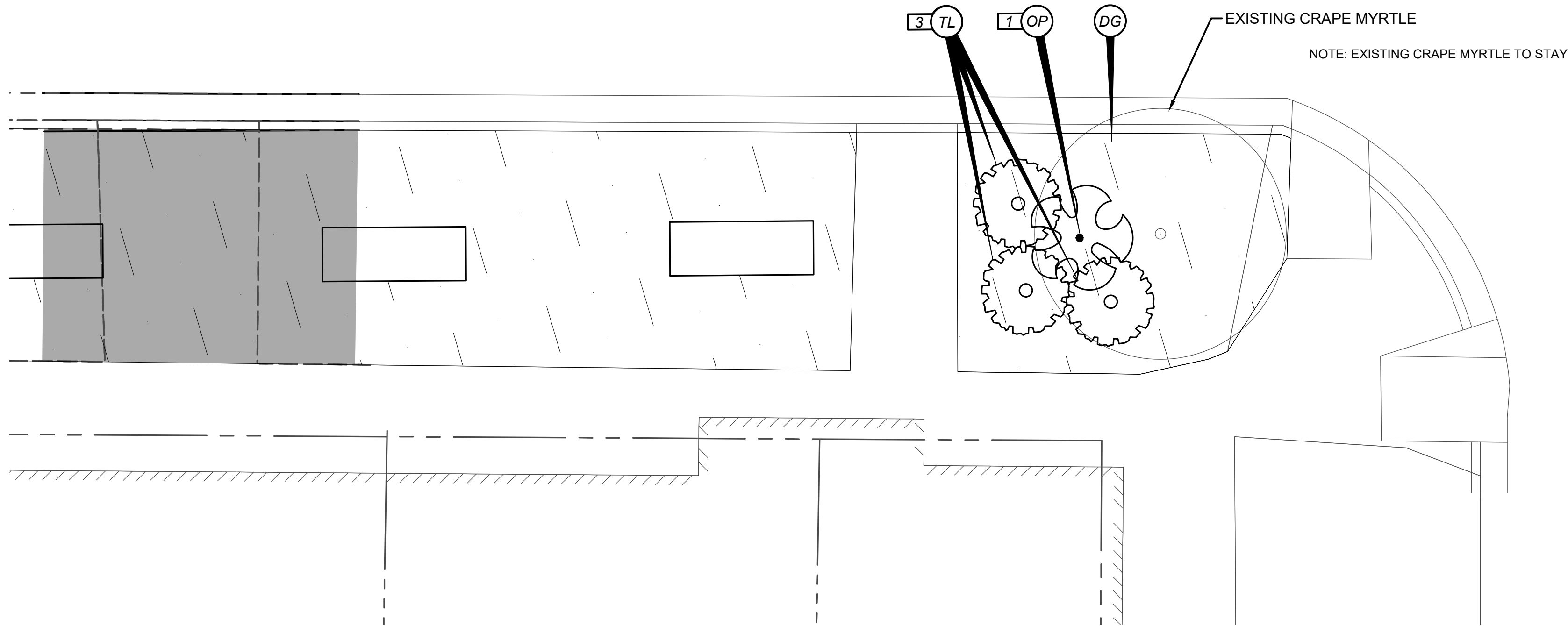
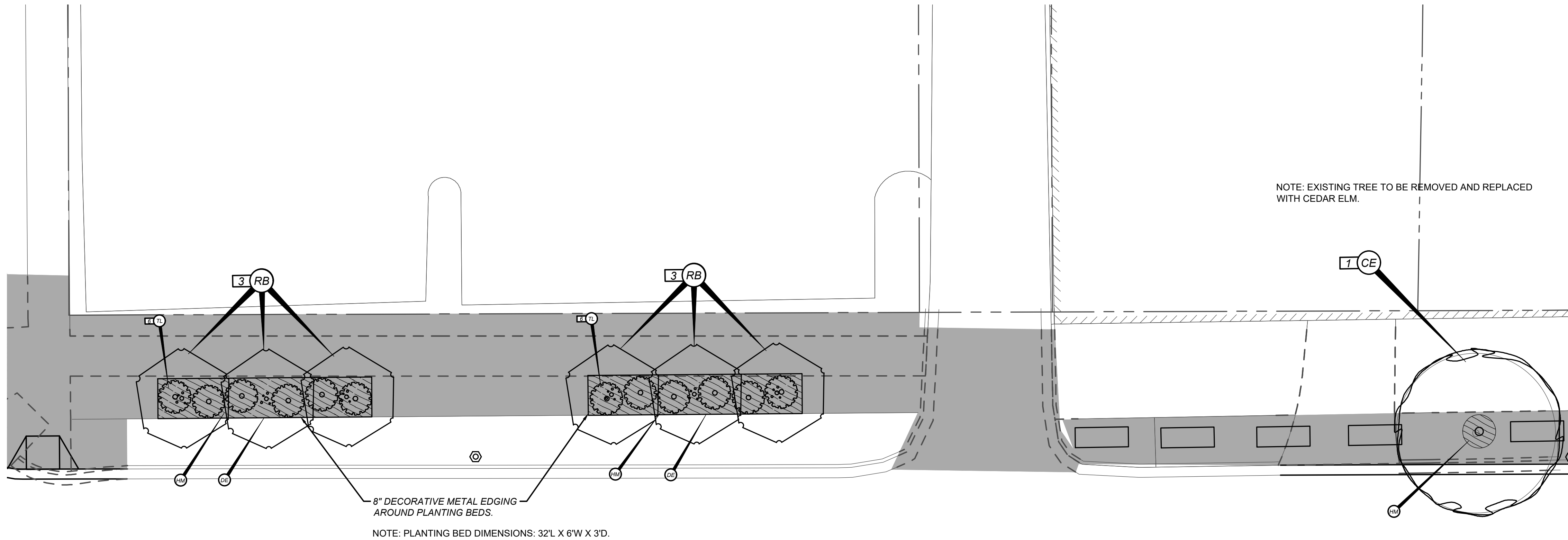
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NOTE: SEE CIVIL SHEETS FOR PROPOSED PLANTER PLACEMENT.

NOTE: EXISTING TREE TO BE REMOVED AND REPLACED WITH CEDAR ELM.

PLANT & MATERIAL KEY		
SYMBOL	ABBR.	COMMON NAME
	AG	PARRY AGAVE
	BI	BIG MUHLY
	BP	PRIDE OF BARBADOS RED
	CE	CEDAR ELM
	OP	SPINELESS PRICKLY PEAR
	RB	TEXAS RED BUD
	TL	TRAILING PURPLE LANTANA
	DG	DECOMPOSED GRANITE
	HM	HARDWOOD MULCH
	LE	LANDSCAPE EDGING
	DE	DECORATIVE METAL EDGING


STATE OF TEXAS
KEVIN SWEAT
92023
PROFESSIONAL ENGINEER
2020-12-22

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CITY OF AUSTIN, TEXAS
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ENGINEERING SERVICES DIVISION

RED RIVER
ENHANCEMENT

LANDSCAPE PLAN
(SHEET 1 OF 2)



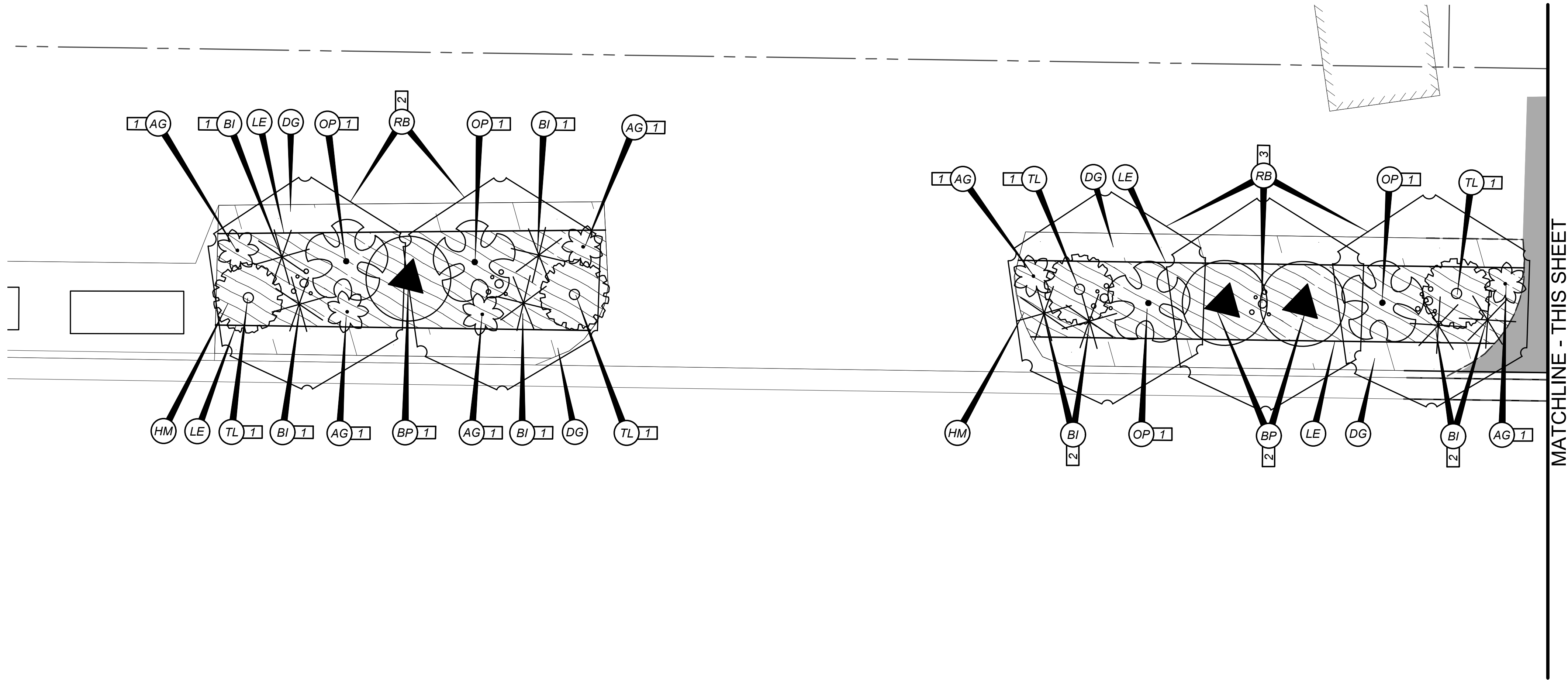
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HORIZONTAL SCALE IN FEET

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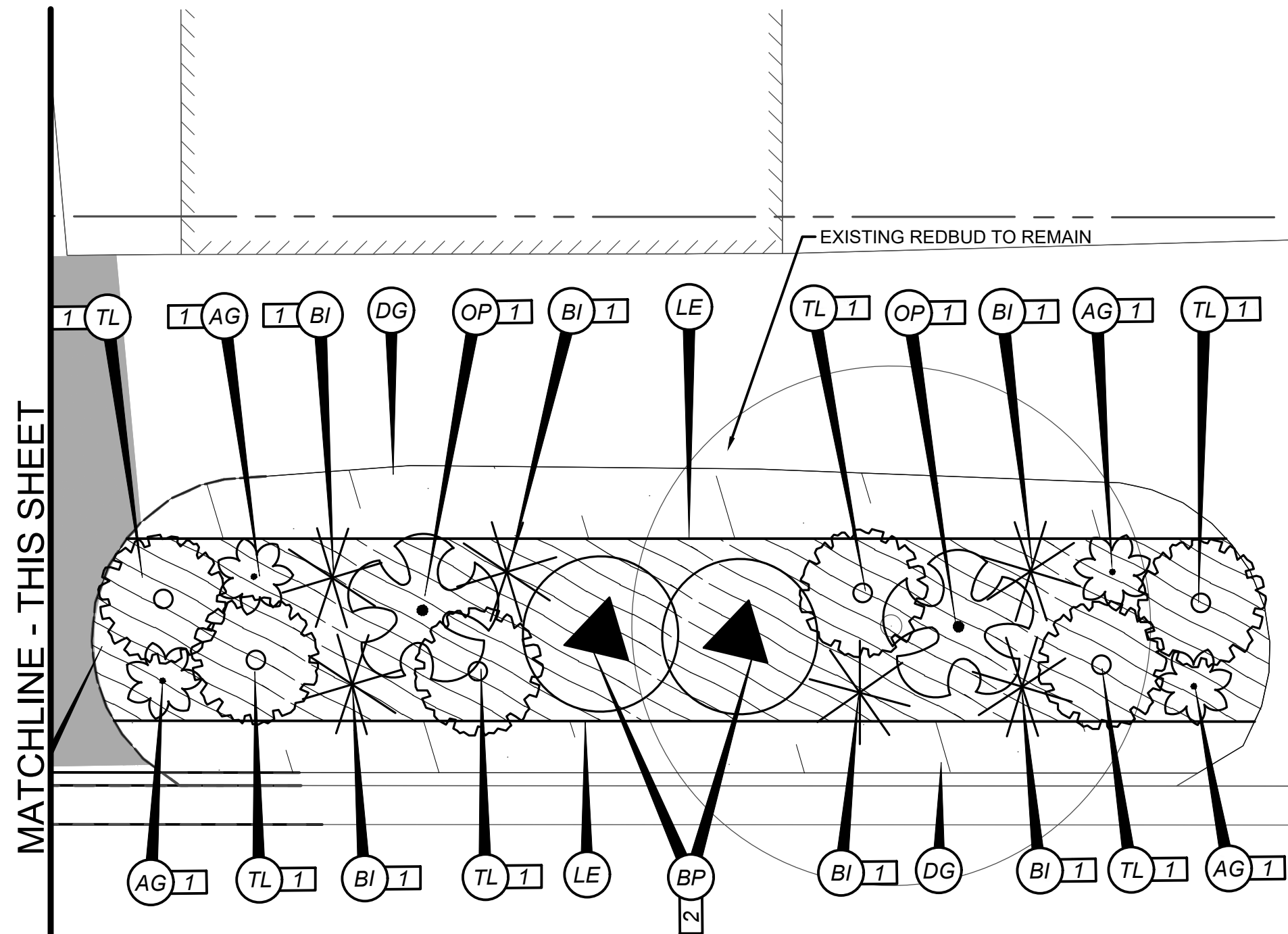
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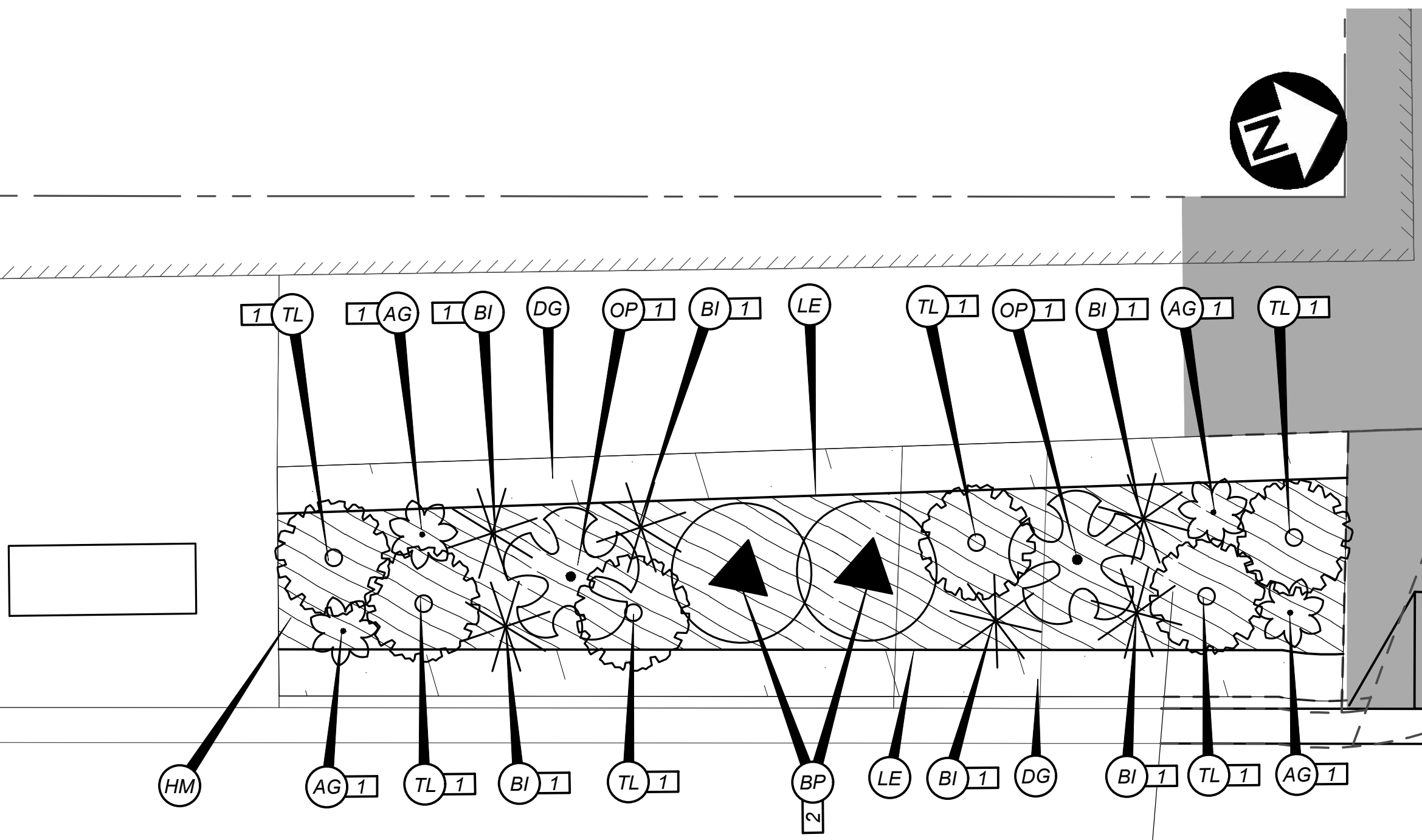
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	LE	LANDSCAPE EDGING
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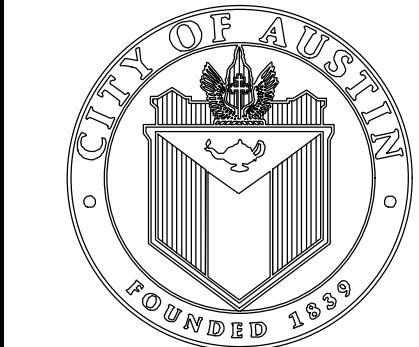
STATE OF TEXAS
KEVIN SWEAT
LIC. # 92023
PROFESSIONAL ENGINEER
2020-12-22
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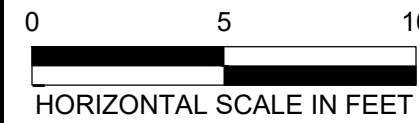
NOTE: EXISTING BOULDERS (6) TO BE RELOCATED AROUND NEW PLANTINGS IN BEDS.










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RED RIVER
ENHANCEMENT
LANDSCAPE PLAN
(SHEET 2 OF 2)


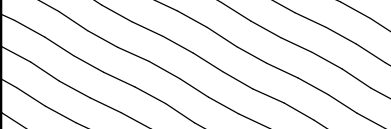

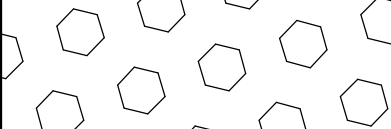

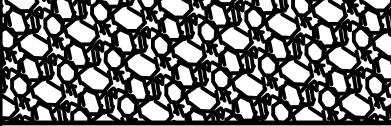



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PLANT SCHEDULE						
PLANT SYMBOL	ABBREVIATION	COMMON NAME	BOTANICAL NAME	SIZE	SPACING	QUANTITY
	AG	PARRY AGAVE	<i>Agave parryi</i> var. <i>parryi</i>	5 GALLON	PER PLANS	14
	BI	BIG MUHLY	<i>Muhlenbergia lindheimeri</i>	5 GALLON	PER PLANS	20
	BP	PRIDE OF BARBADOS RED	<i>Caesalpinia pulcherrima</i>	5 GALLON	PER PLANS	7
	CE	CEDAR ELM	<i>Ulmus crassifolia</i>	3"	PER PLANS	1
	OP	SPINELESS PRICKLY PEAR	<i>Opuntia ellisiana</i>	5 GALLON	PER PLANS	9
	RB	TEXAS REDBUD	<i>Cercis canadensis</i> var. <i>'texensis'</i>	45 GALLON	PER PLANS	11
	TL	PURPLE TRAILING LANTANA	<i>Lantana montevidensis</i>	1 GALLON	PER PLANS	31

MATERIAL SCHEDULE				
SYMBOL	ABBREVIATION	MATERIAL	QUANTITY	NOTES
	DG	DECOMPOSED GRANITE	42 CY	6" DEEP PER PLANS
	HM	HARDWOOD MULCH	13 CY	3" DEEP PER PLANS
	TS-B	TOP SOIL (PLANTING BEDS, RED BUDS AT 7TH ST/RED RIVER CORNER, AND CEDAR ELM AT STA 14+25)	28 CY	6" DEEP PER PLANS
	PM	PLANTING MIX (PLANTERS)	40 CY	FILL TOP 1/2 OF PLANTERS PER PLANS
	LE	LANDSCAPE EDGING	300 LF	1/8"X6"X10' PER PLANS
	WG	1-2" WASHED GRAVEL	40 CY	FILL BOTTOM 1/2 OF PLANTERS PER PLANS
	DE	8" TALL DECORATIVE METAL EDGING	152 LF	PER PLANS



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ENGINEERING SERVICES DIVISION

RED RIVER
ENHANCEMENT

LANDSCAPE SCHEDULE
(SHEET 2 OF 2)



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